GEORGIA POWER COMPANY

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION
MONROE COUNTY, GEORGIA – NOVEMBER 2018 △9

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*H1C11034 REV4 Cell No. 1 and Cell No. 2 & PAC/Ash Cell Miscellaneous Sections and Details
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H1C11045 REV0 PAC/Ash Cell, Flume Data Sheet
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H1C11047 REV4 PAC/Ash Cell, Miscellaneous Sections and Details, Sheet 2
*H1C11048 REV5 PAC/Ash Cell, Miscellaneous Sections and Details, Sheet 3
*H1C11049 REV4 PAC/Ash Cell, Miscellaneous Sections and Details, Sheet 4
H1C11050 REV3 PAC/Ash Cell, Miscellaneous Sections and Details, Sheet 5
*H1C11051 REV4 PAC/Ash Cell, Miscellaneous Sections and Details, Sheet 6
H1C11052 REV4 PAC/Ash Cell, Leachate Collection and Removal System Layout
H1C11053 REV3 PAC/Ash Cell, Return Water Intake Plan & Sections
H1C11054 REV0 PAC/Ash Cell, Geologic Sections C–C', D–D' and E–E'
*H1C11055 NOT USED (SEE NOTE 2)

APPENDED CELL NO. 3 PERMIT APPLICATION DRAWINGS BY HHNT

SHEET NO.	DESCRIPTION
–	TITLE SHEET
1	EXISTING TOPOGRAPHIC CONDITIONS
2	TOP OF SOIL LINER GRADING PLAN
3	LEACHATE COLLECTION / STORMWATER PUMPING PLAN
4	FINAL GRADING PLAN
5	FINAL DRAINAGE AND EROSION CONTROL PLAN
6	CROSS SECTIONS E AND F
7–12	MISCELLANEOUS DETAILS

*DRAWINGS REVISED WITH THE CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

RESPONSIBLE OFFICIAL

GENERAL MANAGER
ENVIRONMENTAL AFFAIRS
GEORGIA POWER COMPANY
BIN 10221
241 RALPH MCGILL BLVD.
ATLANTA, GEORGIA 30308
(404) 506–6505

CONSULTANT

SOUTHERN COMPANY GENERATION
GARY McWHORTER
BIN 10185
241 RALPH McGILL BLVD.
ATLANTA, GEORGIA 30308
TEL: (404) 506–7291

ADDRESS

PLANT SCHERER
10986 GEORGIA 87
JULIETTE, GA 31046

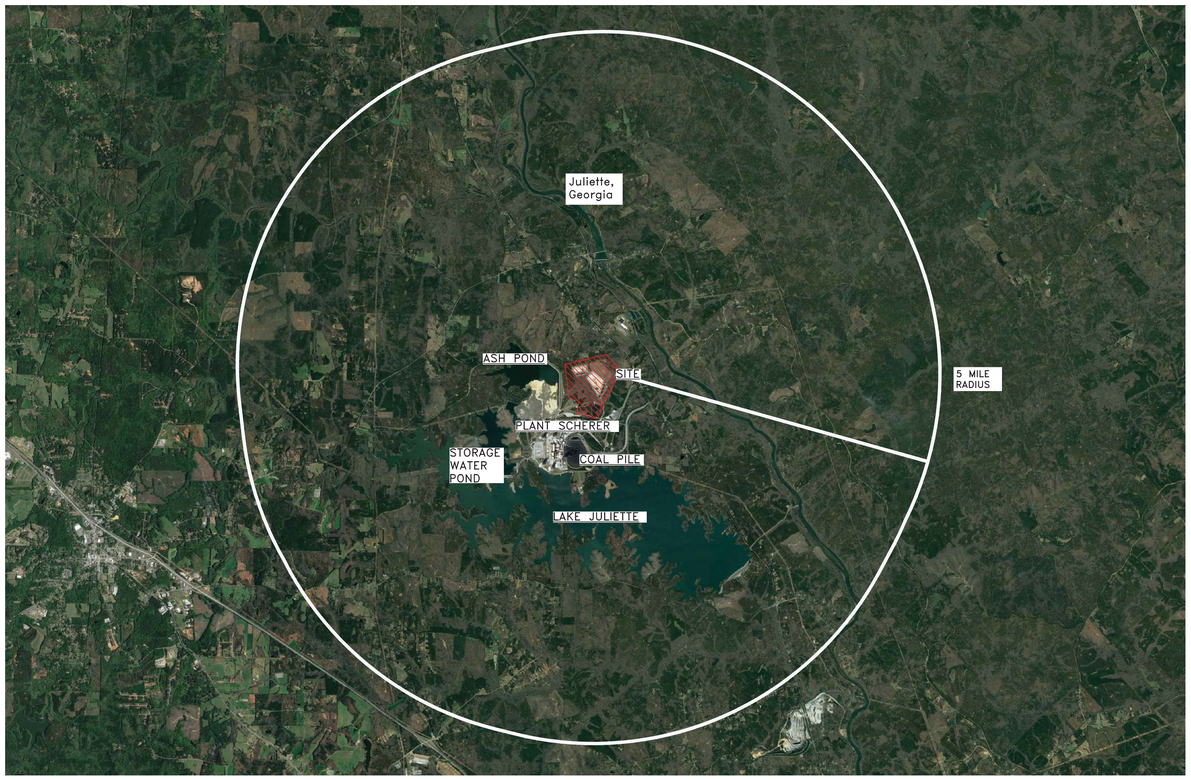
PROPERTY OWNER

GEORGIA POWER COMPANY
241 RALPH McGILL BLVD.
ATLANTA, GEORGIA 30308

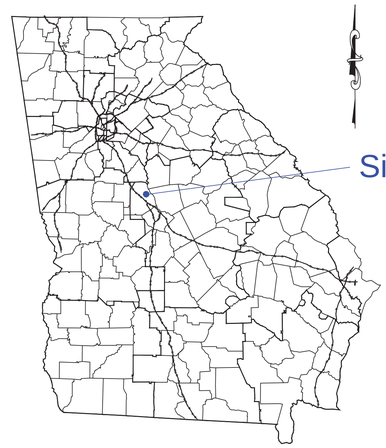
CCR LANDFILL PERMIT APPLICATION CONSULTANT

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC. [HHNT, INC.]
3920 ARKWRIGHT ROAD, SUITE 101
MACON, GEORGIA 31210
TEL: (478) 743–7175 △9

"ORIGINAL DRAWINGS AND REVISIONS MADE PRIOR TO THE CURRENT SUBMITTAL WERE PREPARED BY THE SOUTHERN COMPANY GENERATION ENGINEERING AND CONSTRUCTION SERVICES AND SEALED BY MR. GARY H. WHORTER, P.E. AS NOTED. THE ENTIRE SET OF DRAWINGS IS BEING SUBMITTED TO EPD AS PART OF THE APPLICATION FOR A CCR LANDFILL PERMIT REQUIRED BY THE NEW SOLID WASTE RULE 391-4-.10 (9) (a) FOR COAL COMBUSTION RESIDUALS (CCR) UNITS. DRAWINGS WITHOUT REVISIONS BY HHNT, INC. ARE THE LATEST VERSION OF THE DRAWINGS SUBMITTED AND APPROVED BY EPD UNDER THE CURRENT OPERATING PERMIT. R. BRANT LANE, P.E. AND CLAUDIA M. MOELLER, P.E. FROM HODGES, HARBIN, NEWBERRY AND TRIBBLE, INC. (HHNT, INC.) ONLY CERTIFY THE SPECIFIC REVISIONS NOTED IN DRAWINGS THAT CONTAIN A REVISION BOX DESCRIBING THE REVISION MADE AND NOTED AS CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]."



LOCATION MAP
SCALE AS SHOWN



MONROE COUNTY
GEORGIA

LEGEND:

COAL COMBUSTION RESIDUALS LANDFILL AREA

NOTES:
1. COAL COMBUSTION BY–PRODUCTS AND COAL COMBUSTION RESIDUALS SHALL HAVE THE SAME MEANING IN THESE PERMIT DRAWINGS.
2. INFORMATION SHOWN IN THE ORIGINAL DRAWING WAS MOVED TO A REPORT OR A DIFFERENT PART OF THE PERMIT APPLICATION.

GEORGIA REGISTERED No. 17360 PROFESSIONAL ENGINEER 11-12-18 CLAUDIA M. MOELLER

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER 11/12/18 R. BRANT LANE

"REV. 8 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."

"REV. 7 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."

"REV. 6 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."

"REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."

"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
TITLE SHEET AND DRAWING INDEX

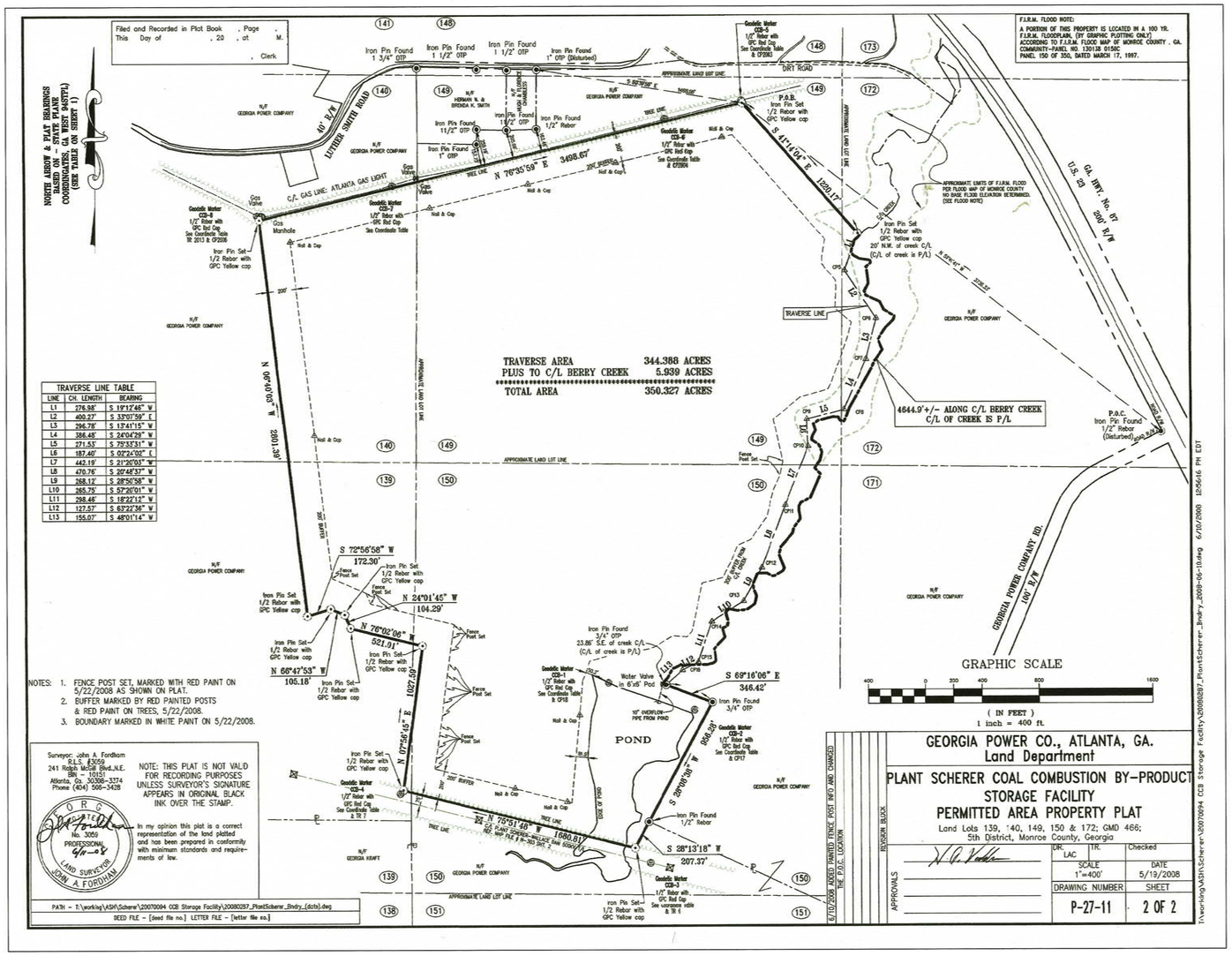
REVISION	DATE	DESCRIPTION	REA	EWO
9	11–01–2018	CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.] REFER TO REVISIONS MADE BY HHNT. INC. ON DRAWINGS NOTED WITH AN ASTERISK (*) ABOVE.	SH07880	3511DE
8	04/10/2017	A. UPDATED REVISION NUMBERS AND RESPONSIBLE OFFICIAL INFORMATION	SH07880	3511DE
7	09/02/2011	A. UPDATED REVISION NUMBERS	SH07880	3511DE
6	01/21/2011	REVISED RESPONSIBLE OFFICIAL TO RON SHIPMAN REVISIONS TO DRAWING INDEX	SH07860	3201DE
5	12/03/2010	GENERAL REVISION FOR PERMIT MODIFICATION	SH07860	3201DE
4	02/26/2010	GENERAL REVISION FOR PERMIT MODIFICATION	SH07860	3201DE
0	12/01/2008	ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."	SH07880	3511DE

REVISION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
9	AMC	CMM	RBL				
8	JJB	GHM	JCP				DWM
7	ASF	GHM	JCP				DWM
6	ASF	GHM	JCP				DWM
5	ASF	GHM	JCP				DWM
4	ASF	GHM	JCP				DWM
0	ASF	GHM	JCP				DWM

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	H1C11000	1	FINAL	9

Drawing name: B:\P - GPC - Scherer\Projects\CCR Major Mod\Revised Drawings\H1C11000_R9.dwg Nov 13, 2018 - 2:25pm

ANSI F: 40x28 Acad2008



TRAVERSE LINE TABLE		
LINE	CH. LENGTH	BEARING
L1	276.98'	S 19°17'46" W
L2	400.27'	S 33°01'59" E
L3	296.78'	S 13°41'15" W
L4	386.48'	S 24°04'29" W
L5	271.53'	S 75°33'31" W
L6	187.40'	S 02°24'02" E
L7	442.19'	S 21°20'03" W
L8	470.76'	S 29°48'37" W
L9	268.12'	S 28°50'58" W
L10	265.75'	S 57°26'01" W
L11	298.46'	S 18°22'12" W
L12	127.57'	S 63°22'36" W
L13	155.07'	S 48°01'14" W

Legal Description for Plant Scherer Coal Combustion By-Product Storage Facility Permitted Area Property Plat
GPC Map File No: P-27-11

Commence at a found ½" rebar marking the intersection of the westerly right of way of Georgia Highway Number Eighty Seven (87) and the northerly right of way of Georgia Power Company Road, said ½" rebar has state plane coordinates (Georgia West – NAD 83 (1994)) of x = 2413766.98 feet and y = 1119284.47 feet; thence North 51°41'41" West along a grid bearing for a distance of 3736.33 feet to set ½" rebar with yellow cap marked GPC, said ½" rebar with yellow cap being also the Point of Beginning of the parcel described hereon; thence South 41°14'04" East for a distance of 1220.17 feet to a set ½" rebar with yellow cap marked GPC; thence continue along said bearing for a distance of 20.00 feet to the centerline of Berry Creek; thence southeasterly and southwesterly along said centerline of Berry Creek for a distance of ±4645 feet to a point; thence South 69°16'06" East for a distance of 23.86 feet to a found ¾" open top pipe; thence continue along said bearing for a distance of 346.42 feet to a found ¾" open top pipe; thence South 28°08'38" West for a distance of 956.28 feet to a found ½" rebar; thence South 28°13'18" West for a distance of 207.37 feet to a set ½" rebar with yellow cap marked GPC; thence North 75°51'48" West for a distance of 1680.81 feet to a set ½" rebar with yellow cap marked GPC; thence North 07°56'45" East for a distance of 1027.59 feet to a set ½" rebar with yellow cap marked GPC; thence North 76°02'06" West for a distance of 521.01 feet to a set ½" rebar with yellow cap marked GPC; thence North 24°01'45" West for a distance of 104.29 feet to a set ½" rebar with yellow cap marked GPC; thence North 66°47'53" West for a distance of 105.18 feet to a set ½" rebar with yellow cap marked GPC; thence South 72°56'58" West for a distance of 172.30 feet to a set ½" rebar with yellow cap marked GPC; thence North 06°40'03" West for a distance of 2801.39 feet to a set ½" rebar with yellow cap marked GPC; thence North 76°35'59" East for a distance of 3498.67 feet to the point of beginning and containing 350.33 acres, more or less.

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
Solid Waste Permit No. 102-009D (SE)
Reviewed By: CEH Date: 4/14/10
Approved By: MVK Date: 4/22/10

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY H. McWHORTER

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

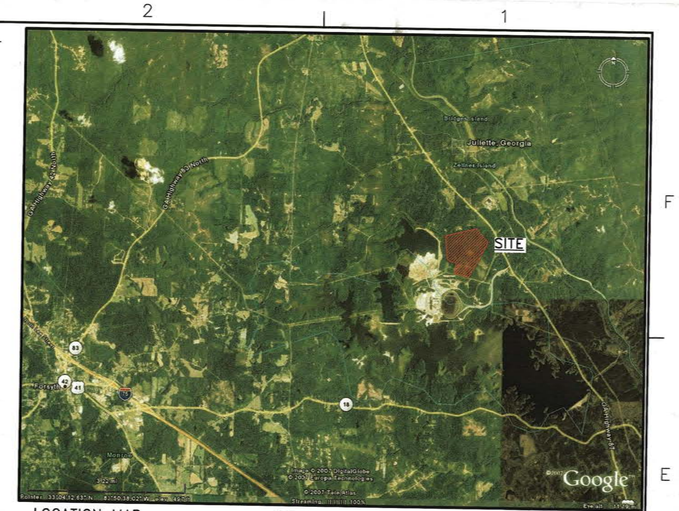
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PERMITTED SITE BOUNDARY
PLAT AND LEGAL DESCRIPTION

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 1	DATE 11/25/2009	JJB	GHM	JCP				DWM
ISSUED FOR PERMIT MODIFICATION								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH07860	EWO: 3201DE							
REVISION 0	DATE 12/01/2008	ASF	GHM	JCP				DWM
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH07880	EWO: 3511DE							

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'S
AS SHOWN	010505	H1C11001	1	F

PATH: T:\ESEE_MAJOR_PROJECTS\PROJECTS\SCHERER\2009\ES1789 PAC D & D Revisions\dwg\H1C11001REV1.dwg

ANSI F 40x28



LOCATION MAP
SCALE AS SHOWN



MONROE COUNTY
GEORGIA

BOUNDARY		
POINT	NORTHING	EASTING
1	1117515.58	2410279.34
2	1117392.95	2410603.32
3	1116367.02	2410054.20
4	1116777.54	2408424.29
5	1117795.27	2408566.34
6	1117921.00	2408060.73
7	1118016.25	2408018.26
8	1118057.69	2407921.58
9	1118007.17	2407756.86
10	1120789.67	2407431.81
11	1121600.44	2410835.01
12	1120682.85	2411639.28
BUFFER		
13	1117765.62	2410153.37
14	1117683.84	2409743.47
15	1117545.78	2409690.11
16	1116685.16	2409609.92
17	1116928.73	2408647.68
18	1117945.91	2408789.31
19	1118091.55	2408203.67
20	1118169.22	2408169.04
21	1118270.40	2407933.01
22	1120636.27	2407650.89
23	1121377.95	2410764.08
24	1120639.92	2411410.99

TRAVERSE LINE TABLE		
LINE	CH. LENGTH	BEARING
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L2	400.27'	S 33°07'59" E
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L7	442.19'	S 21°20'03" W
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L10	265.75'	S 57°20'01" W
L11	298.46'	S 18°22'12" W
L12	127.57'	S 63°22'36" W
L13	155.07'	S 48°01'14" W

NOTES:

1) Ninety (90) percent of the elevations determined from the solid line contours of this topographic map have an accuracy with respect to true elevation of one-half (1/2) contour interval or better and the remaining ten (10) percent of such elevations are not in error of more than one contour interval. In densely wooded areas where heavy brush or tree cover fully obscures the ground, the contours are shown as dashed lines. All contours have been processed utilizing digital terrain modeling methods from the stereoscopic model. All spot elevations are measured in places where the ground is visible.
2) This map was compiled by Metro Engineering & Surveying Co., Inc. using analytical photogrammetric methods. Contours portrayed as dashed lines should be considered approximate. This map has not been field verified. Prior to use as a basis for design and or construction, it should be field verified.
3) The survey plat of the site boundary indicates buffer limits resulting from tangent intersections corresponding to 200 ft. offsets along Berry Creek. These intersections, flagged/marked during the ground survey, resulted in a buffer greater than 200 ft. at these intersection points. The actual buffer limits indicated on the topo maps and site design drawings uses curved connections centered along Berry Creek that correspond to the minimum 200 ft. buffer requirement. The buffer limits corresponding to these curved connections will be resurveyed prior to construction.

GRAPHIC SCALE
(IN FEET)
1 inch = 250 ft.

LEGEND:

- EXISTING C&D LANDFILL BOUNDARY
- PROPERTY LINE
- SITE BOUNDARY
- BUFFER BOUNDARY
- STREAM OR CREEK
- EXISTING CONTOURS

GEORGIA Environmental Protection Division Solid Waste Management Program
MINOR MODIFICATION APPROVAL
Solid Waste Permit No. 102-007D(LI2)
Reviewed By: CDH Date: 4/19/10
Approved By: MAC Date: 4/22/10

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY H. McWHORTER

Metro Engineering & Surveying Co., Inc.
Engineers • Surveyors • Photogrammetrist
Clayton / Tara Airport
186 Selfridge Road • Hampton, GA 30228
Phone: 770-707-0777
Fax: 770.707-0755
www.metro-engineering.com
THIS PLAT IS NOT VALID UNLESS SURVEYOR'S SIGNATURE APPEARS IN BLACK INK.
"QUALITY SERVICE SINCE 1987"

"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."

"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 2	DATE 11/25/2009	JJB	GHM	JCP				DWM
ISSUED FOR PERMIT MODIFICATION								
REA: SH07860	EWO: 3201DE							
REVISION 1	DATE 04/20/2009	ASF	GHM	JCP				DWM
A. ADJUSTED 200' PROJECT BUFFER AT FLOOD LIMITS LOCATION.								
REA: SH07880	EWO: 3511DE							
REVISION 0	DATE 12/01/2008	ASF	GHM	JCP				DWM
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH07880	EWO: 3511DE							

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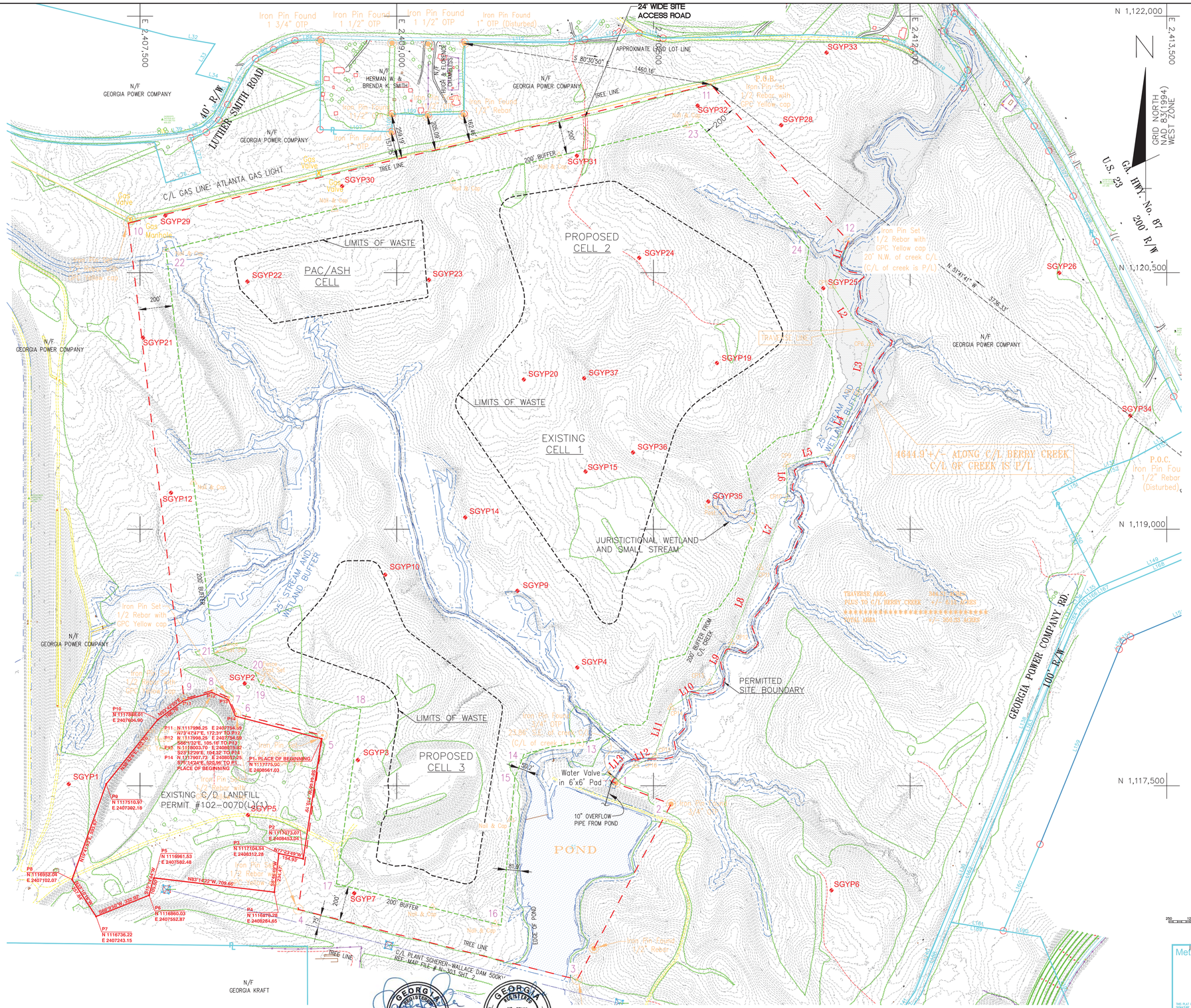
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
SITE TOPOGRAPHIC SURVEY

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV.
1" = 250'	010505	H1C11002	1	FINAL	2

Drawing name: T:\ESEE MAJOR PROJECTS\PROJECTS\SCHERER\2009\ES1789 PAC D & O Revisions\dwg\H1C11002REV2.dwg Feb 26, 2010 - 4:41pm


24' WIDE SITE ACCESS ROAD
APPROXIMATE LAND LOT LINE
S 80°30'50" E 1460.16'
Iron Pin Found 1 3/4" OTP
Iron Pin Found 1 1/2" OTP
Iron Pin Found 1 1/2" OTP
Iron Pin Found 1" OTP (Disturbed)
N 1,122,000
E 2,407,500
E 2,409,000
E 2,410,500
E 2,412,000
E 2,413,500
N/F GEORGIA POWER COMPANY
40' R/W LUTHER SMITH ROAD
N/F HERMAN W. & BRENDA K. SMITH
BRICK & FLORENCE CITIZENS
TREE LINE
C/L GAS LINE: ATLANTA GAS LIGHT
Gas Valve
Gas Manhole
200' BUFFER
LIMITS OF WASTE
PAC/ASH CELL
PROPOSED CELL 2
EXISTING CELL 1
PROPOSED CELL 3
EXISTING C/D LANDFILL PERMIT #102-007D(LCP)
25' STREAM AND WETLAND BUFFER
JURISTICTIONAL WETLAND AND SMALL STREAM
PERMITTED SITE BOUNDARY
TRAVERSE AREA PLUS 50 C/L BERRY CREEK +/- 0.11 ACRES TOTAL AREA +/- 350.03 ACRES
4644.9 +/- ALONG C/L BERRY CREEK C/L OF CREEK IS P/L
P.O.C. Iron Pin Found 1/2" Rebar (Disturbed)
P.O.B. Iron Pin Set 1/2 Rebar with GPC Yellow cap
Iron Pin Set 1/2 Rebar with GPC Yellow cap 20' N.W. of creek C/L (C/L of creek is P/L)
N 31°41'41" W 3736.33'
Water Valve in 6'x6' Pad
10" OVERFLOW PIPE FROM POND
POND
EXISTING POND
GEORGIA POWER COMPANY 100' R/W
C/L PLANT SCHERER-WALLACE DAM 500kV REF. MAP FILE # N-303 SHT. 2
N/F GEORGIA KRAFT
U.S. 23
GA. HWY. No. 87
200' R/W
GRID NORTH NAD 83(1994) ZONE WEST
N 1,120,500
N 1,119,000
N 1,117,500
SGYP1
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SGYP33
SGYP34
SGYP35
SGYP36
SGYP37
P1- PLACE OF BEGINNING N 1117733.50 E 2408561.03
P2 N 1117073.07 E 2408453.07
P3 N 1117104.44 E 2408312.28
P4 N 1116879.28 E 2408264.65
P5 N 1116961.53 E 2407582.48
P6 N 1116860.03 E 2407552.97
P7 N 1116736.22 E 2407243.15
P8 N 1116952.08 E 2407102.07
P9 N 1117510.97 E 2407382.18
P10 N 1117888.01 E 2407604.90
P11 N 1117996.25 E 2407734.19
P12 N 1117998.25 E 2407734.59
P13 N 1118003.70 E 2408819.92
P14 N 1117907.73 E 2408053.25
P15 N 1117888.03 E 2408561.03
N73°47'47"E, 172.31' TO P13
S06°13'E, 105.16' TO P13
S23°12'29"E, 194.32' TO P13
S75°14'24"E, 520.96' TO P1, PLACE OF BEGINNING
N13°14'22"W, 709.66'
S88°04'04"W, 332.95'
N01°43'57"E, 305.00'
N27°23'49"W, 154.93'
S62°36'11"W, 234.47'
S01°43'57"W, 305.00'
N01°43'57"E, 305.00'
S88°16'03"E, 305.00'
S01°43'57"W, 305.00'
S88°16'03"E, 305.00'
N01°43'57"E, 305.00'
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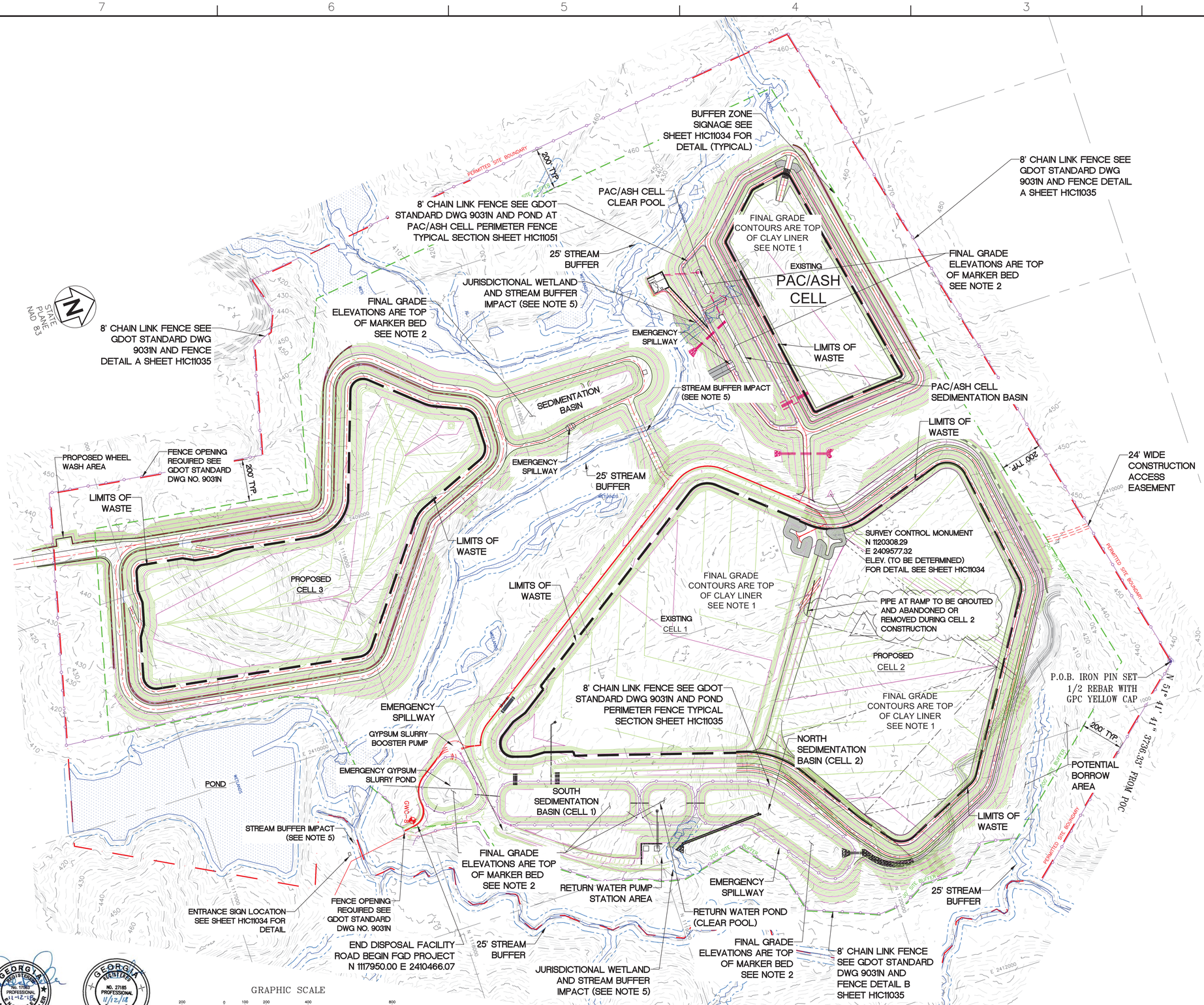
N88°16'03"W, 305.00'
S01°43'57"W, 305.00'
N88°16'03"W, 305.00'
S01°43'57"W, 305.00'
N88°16'03



NOTES:

1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER.
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SLOPES OF THE PONDS ARE TOP OF CLAY LINER.
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
4. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
5. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
6. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
7. ALL LAND DISTURBING ACTIVITIES SHALL CONFORM TO THE MINIMUM REQUIREMENTS FOR CONSERVATION AND ENGINEERING PRACTICES AS PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION IN THE LATEST EDITION OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA AND THE EROSION, SEDIMENT AND POLLUTION CONTROL PLAN THAT WILL BE PREPARED FOR CONSTRUCTION ACTIVITIES.
8. THE RETURN WATER POND AND SEDIMENTATION BASINS ARE DESIGNED TO RETAIN THE SURFACE STORM WATER RUN–OFF FROM A 100 YEAR/24 HOUR EVENT IN ADDITION TO APPROXIMATELY 3 DAYS OF RETURN WATER STORAGE. THE 3 DAYS OF RETURN WATER STORAGE ARE NOT APPLICABLE TO THE PAC/ASH CELL SINCE IT IS A DRY STORAGE FACILITY.
9. THE 8' CHAIN LINK FENCE SHALL BE 8' TALL WITH NO BARBED WIRE. REFER TO THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECS SECTION 894 AND SECTION 643.

SURVEY POINT OF CONTROL – CONCRETE MONUMENT WITH BRASS PLATE
NORTHING 1120308.29
EASTING 2409577.32
ELEV. (TO BE DETERMINED)
REFERENCE DRAWING H1C11034

REFERENCE DWGS:
H1C11000 – TITLE SHEET AND DRAWING INDEX

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- CONCRETE CONTROL MONUMENT
- 25' STREAM AND WETLAND BUFFER
- FENCE
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- PIEZOMETER LOCATION
- LIMITS OF WASTE
- POINT OF BEGINNING
- ROCK DRAIN
- SLOPE PROTECTION

GEORGIA REGISTERED No. 17865 PROFESSIONAL ENGINEER CLAUDIA M. MOELLER 11-12-18

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 11/12/18

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
GENERAL SITE DEVELOPMENT
CELL LAYOUT

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
8	11–01–2018	CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.] REVISED PROPOSED CELL 3 GRADING.	AMC	CMM	RBL				
7	5–08–15	ISSUED FOR MINOR MODIFICATION "REV. 7 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." MWO: GPC381513	CRU	PMG	RCB				ELM
6	7–31–14	ISSUED FOR MINOR MODIFICATION "REV. 6 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." MWO: GPC381513	CRU	PMG	RCB				ELM
5	12–03–10	A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	EEJ	PMG	JAH				JBS
4	2–26–10	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	EEJ	PMG	JAH				JBS
3	11–25–09	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	ECO	PMG	JAH				JBS
0	12–01–08	ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	JAA	PMG	BDP				CKT

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=200'	010505	**H1C11004**	1	FINAL	8

ANSI F: 40x28 Acad2008

CELL 1 ℄ PERIMETER ROAD STATIONING

Station	Northing	Easting	Elevation	Length	Grade
0+00.00	1118456.695	2410388.806	414.480'	19.882'	0.91%
0+19.88	1118437.791	2410382.646	414.660'	121.821'	0.94%
1+41.70	1118350.007	2410302.363	415.810'	230.058'	0.80%
3+71.76	1118409.310	2410098.344	417.660'	1465.026'	1.16%
18+36.79	1119624.930	2409280.683	434.677'	258.386'	0.45%
20+95.17	1119865.123	2409294.699	435.839'	433.244'	1.17%
25+28.42	1120192.726	2409578.207	440.907'	148.805'	0.23%
26+77.22	1120255.699	2409709.128	441.255'	122.721'	−0.54%
27+99.94	1120225.971	2409826.063	440.588'	950.018'	−1.52%
37+49.96	1119688.798	2410609.631	426.143'	241.987'	−0.52%
39+91.95	1119476.900	2410688.355	424.873'	1042.234'	−1.00%
50+34.18	1118476.707	2410395.327	414.480'	21.048'	0.00%
50+55.31 =0+00.00	1118456.695	2410388.806	414.480'		

℄ PERIMETER ROAD STATIONING AT NORTH SIDE OF TEMP. SEDIMENT POND

Station	Northing	Easting	Elevation	Length	Grade
0+00.00 (=39+91.95 FROM CELL 1)	1119476.900	2410688.355	424.873'	34.457'	1.01%
0+34.46	1119509.967	2410698.042	425.220'	99.255'	0.97%
1+33.71	1119599.725	2410739.554	426.180'	130.180'	1.13%
2+63.89	1119692.091	2410830.125	424.710'	18.079'	1.16%
2+81.97	1119701.907	2410845.307	424.500'	346.082'	2.90%
6+28.05	1119881.885	2411140.909	414.480'	19.636'	0.00%
6+47.69	1119893.514	2411156.731	414.480'	(END)	

NOTES:

1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SIDE SLOPES OF THE PONDS ARE TOP OF CLAY LINER
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS
4. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
5. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
6. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
7. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.

SEE SHT H1C11042 FOR PAC/ASH CELL DETAILS

TEMPORARY TOP SOIL STOCK PILE AREA
MAX. SLOPES NOT TO EXCEED 3:1

CELL 1

CELL 2
ROUGH GRADE & BORROW AREA FOR CELL 1

POTENTIAL BORROW AREA

FINAL GRADE CONTOURS ARE TOP OF CLAY LINER SEE NOTE 1

FINAL GRADE ELEVATIONS ARE TOP OF MARKER BED SEE NOTE 2

FINAL GRADE POND BOTTOM ELEVATIONS ARE TOP OF MARKER BED. SEE NOTE 2

SEE H1C11015 FOR CELL, DITCH AND POND LINER DETAILS

SEE H1C11037 FOR LEACHATE COLLECTION & REMOVAL SYSTEM LAYOUT

SEE SLURRY LINE DISCHARGE TYPICAL SECTION SHT H1C11015

60 MIL HDPE PLACEMENT FOR EROSION PROTECTION SEE SLURRY LINE DISCHARGE TYPICAL SECTION SHT H1C11015

APPROXIMATE LOCATION OF AIR RELEASE VALVE FOUNDATION. SEE WORLEY PARSONS DRAWINGS AND SHT H1C11019 FOR DETAILS

SEE HDPE SLURRY LINES SHT H1C11016

SEE RAMP DITCH CULVERT SECTION AT CELL 1 SHT H1C11016

CONCRETE U-DRAIN SEE SHT H1C11020 FOR DETAILS AND SECTIONS

SEE SLURRY LINE ROAD CROSSING AT BOOSTER PUMP TYPICAL SECTION AT CELL 1 SHT H1C11015

GYPSUM SLURRY BOOSTER PUMP SEE WORLEY PARSONS DWGS

GYPSUM SLURRY BOOSTER PUMP DRAIN & BYPASS PIPES SEE WORLEY PARSONS DWGS FOR COORDINATES AND DETAILS. SEE PIPE SECTIONS SHT H1C11017 FOR HDPE PIPE PENETRATIONS

8' CHAIN LINK FENCE AROUND PERIMETER OF POND REQUIRED SEE DETAIL SHEET H1C11035

SEE UNDERDRAIN OUTLET DETAIL SHT H1C11018

EMERGENCY GYPSUM SLURRY POND BOTTOM EL. 391.00

SEE WORLEY PARSONS DRAWING FOR SLURRY PIPE DETAILS UP TO BOOSTER PUMPS

PERMANENT ACCESS ROAD SEE SHT H1C11015

12" ø HDPE RETURN WATER LINE

SEE PIPE CULVERT FROM SOUTH SEDIMENTATION POND TO EMERGENCY GYPSUM SLURRY POND SHT H1C11017

ALL GYPSUM SLURRY LINES & RETURN WATER LINES LOCATED WITHIN THE PERMITTED SITE BOUNDARY ARE DOUBLE WALL PIPE UNLESS THEY ARE LOCATED ABOVE THE LINER SYSTEM

BACKFILLED TRENCH OF THE PIPE CULVERT ALSO CONTAINS ONE 6" ø HDPE SUMP PUMP DISCHARGE PIPE FROM EMERGENCY GYPSUM SLURRY POND FLOATING PUMP PLATFORM TO THE SOUTH SEDIMENTATION POND. THIS PUMP AND PIPE WILL HANDLE THE ACCUMULATION OF STORM WATER IN THE POND (SEE WORLEY PARSONS DWGS)

SOUTH SEDIMENTATION POND BOTTOM EL VARIES

CLEAR POOL BOTT. EL. 397.00

NORTH SEDIMENTATION POND BOTTOM EL VARIES

TEMP CONST SEDIMENTATION BASIN SECTION AT CELL 1 SHT H1C11033

SEE RETURN WATER PIPE FROM TRANSFER PUMP SUMP SECTION SHT H1C11035

SEE ROCK DRAIN SECTION SHT H1C11017

SEE RETURN WATER LINE TO PUMPS SECTION H1C11015 (WORLEY PARSONS)

LEAKAGE DETECTION SUMP SEE SHT H1C11019

SEE NORTH DITCH CULVERT SECTION AT CELL 1 SHT H1C11016

SEE SOUTH DITCH CULVERT SECTION AT CELL 1 SHT H1C11016

EMERGENCY SPILLWAY OUTFALL INTO ROADSIDE DITCH SEE TYPICAL SECTION SHT H1C11015

SEE PUMP ACCESS ROAD TYP SECTION SHT H1C11015

SEE WORLEY PARSONS ELECTRICAL DUCT BANK DWGS

RETURN WATER PUMP & ELECTRICAL CONTROL BLDG

JURISDICTIONAL WETLAND AND STREAM BUFFER IMPACT(SEE NOTE 5)

SEE EMERGENCY SPILLWAY AT SEDIMENTATION PONDS TYPICAL SECTION SHT H1C11015

TEMPORARY SEDIMENT BASIN THIS POND NOT LINED WITH HDPE FOR CELL 1. CLAY, LINER SYSTEM, MARKER BED, AND FENCE TO BE INSTALLED DURING CELL 2 CONSTRUCTION

SEE CELL 2 PERIMETER DITCH CULVERT SECTION SHT H1C11035

BEGIN TRANSITION FROM 3' DEPTH TO 6' DEPTH @ 2.40% DITCH BOTTOM SLOPE. BEGIN RIPRAP LINED DITCH SEE CELL 2 PERIMETER DITCH CULVERT SECTION SHT H1C11035

FINAL GRADE ELEVATIONS ARE TOP OF MARKER BED. SEE NOTE 2

24' WIDE CONSTRUCTION ACCESS EASEMENT

200' SITE BUFFER

PERMITTED SITE BOUNDARY

8' WIDE DITCH @ 0.50%

8' WIDE F.B. DITCH @ 0.50% W/ 3:1 SIDE SLOPES

25' STREAM BUFFER

W.P. ℄ 36" ø HDPE PIPES @ N 1118576.39 E 2410026.93 EL. 414.40

W.P. ℄ 36" ø HDPE PIPES @ N 1118497.91 E 2410079.72 EL. 413.30

W.P. 24" ø HDPE PIPE @ N 1118947.30 E 2410679.09 EL. 400.00

W.P. 24" ø HDPE PIPE @ N 1119200.19 E 2410761.49 EL. 400.00

W.P. 24" ø HDPE PIPE @ N 1119029.16 E 2410705.76 EL. 400.00

W.P. 24" ø HDPE PIPE @ N 1119282.08 E 2410788.17 EL. 400.00

W.P. 24" ø HDPE PIPE @ N 1119029.54 E 2410909.88

W.P. ROCK DRAIN N 1118936.35 E 2410879.51

W.P. ROCK DRAIN N 1118905.98 E 2410972.70

W.P. ROCK DRAIN N 1119125.63 E 2410943.79

W.P. SPILLWAY @ N 1119518.93 E 2411146.79 EL. 410.66 END RECYCLEX

W.P. SPILLWAY @ N 1119580.93 E 2411101.23 EL. 412.00 START RECYCLEX

W.P. SPILLWAY N 1118362.85 E 2410581.59 EL. 412.00 END RECYCLEX

W.P. SPILLWAY N 1118329.32 E 2410617.55 EL. 411.85 END RECYCLEX

W.P. ℄ 18" ø HDPE PIPES @ N 1118364.81 E 2410455.75 EL. 411.47

W.P. ℄ 18" ø HDPE PIPES @ N 1118254.63 E 2410410.08 EL. 396.04

W.P. ℄ 36" ø HDPE PIPES @ N 1118505.09 E 2410272.56 EL. 418.72

W.P. ℄ 36" ø HDPE PIPES @ N 1118469.00 E 2410373.89 EL. 409.32

W.P. ℄ 36" ø HDPE PIPES @ N 1118451.94 E 2410426.26 EL. 408.77

W.P. ℄ 36" ø HDPE PIPES @ N 1118615.65 E 2410476.71 EL. 410.28

W.P. ℄ 36" ø HDPE PIPE @ N 1118644.22 E 2410484.12 EL. 410.60

W.P. ℄ 36" ø HDPE PIPE @ N 1118723.561 E 2410202.191 EL. 421.68

W.P. (2) 48" ø HDPE PIPES N 1119935.34 E 2411250.45 EL. 406.00

W.P. (2) 48" ø HDPE PIPES N 1119866.01 E 2411228.22 EL. 405.62

W.P. EL 392.00 TOP OF 66" HDPE RISER EL 396.50 W/ 96"ø TRASH RACK BY CONTECH OR APPROVED EQUAL & 7.5'X7.5'X1.5' RISER BASE N 1119511.12 E 2410914.50

W.P. EL 392.00 TOP OF 66" HDPE RISER EL 396.50 W/ 96"ø TRASH RACK BY CONTECH OR APPROVED EQUAL & 7.5'X7.5'X1.5' RISER BASE N 1119518.58 E 2410921.59

W.P. @ N 1119988.75 E 2411074.45 EL. 418.72

W.P. @ N 1120141.38 E 2411339.40 EL. 418.72

W.P. @ N 1120262.15 E 2409764.45 EL. 440.75

W.P. @ N 1120035.41 E 2410134.79 EL. 439.67

W.P. @ N 1120805.71 E 2410603.81 EL. 429.73

H.P. @ N 1119954.04 E 2409790.11 EL. 437.35

(2) DUAL WALL FABRICATED 30" BENDS BY ADS PART NO. 3695AN65B OR EQUAL REQ'D

8' CHAIN LINK FENCE REQUIRED SEE DETAIL SHEET

MANHOLE REQ'D P.I. @ N 1119123.60 E 2410936.39 TOP EL = 391.69 INV IN/OUT = 386.61

MANHOLE REQ'D P.I. @ N 1119125.63 E 2410943.79 TOP EL = 392.53 INV IN/OUT = 386.53

END PIPE/FE SECTION N 1119219.80 E 2410950.32 EL. 386.34

END PIPE/FE SECTION N 1119114.99 E 2410946.03 EL. 385.48

L=258.386 Δ=74.4211 R=198.928

L=148.805 Δ=43.3567 R=196.645

L=122.721 Δ=36.5181 R=192.545

L=241.987 Δ=72.7656 R=190.541

L=235.018 Δ=70.3811 R=191.323

L=99.255 Δ=16.9766 R=334.985

L=130.180 Δ=22.2641 R=335.013

L=121.821 Δ=43.1770 R=161.657

L=230.058 Δ=78.5427 R=167.824

PC: 0+19.88 PI: 50+34.18 PT: 3+71.76

PC: 0+54.46 PI: 2+63.89 PT: 4+99.95

PC: 0+00.00 PI: 1+33.71 PT: 2+81.97

PC: 26+77.22 PI: 27+99.94 PT: 29+28.42

PC: 37+49.96 PI: 39+91.95 PT: 42+58.39

PC: 0+00.00 PI: 0+34.46 PT: 0+54.46

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- 25' STREAM AND WETLAND BUFFER
- FENCE
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND

- Sd1 SILT FENCE (SEE H1C11033)
- Di DIVERSION (SEE H1C11033)
- Lv LEVEL SPREADER (SEE H1C11033)
- Du DUST CONTROL
- Cd-s STONE CHECK DAM (2"–10" STONE)
- Sd3 TEMPORARY SEDIMENT BASIN

GEORGIA Environmental Protection Division Solid Waste Management Program
MINOR MODIFICATION APPROVAL
Solid Waste Permit No. 102-009D(LT)
Reviewed By: CBH Date: 4/12/11
Approved By: MMK Date: 5/9/11

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11014 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11015 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11016 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11017 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11018 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11019 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11021 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11035 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

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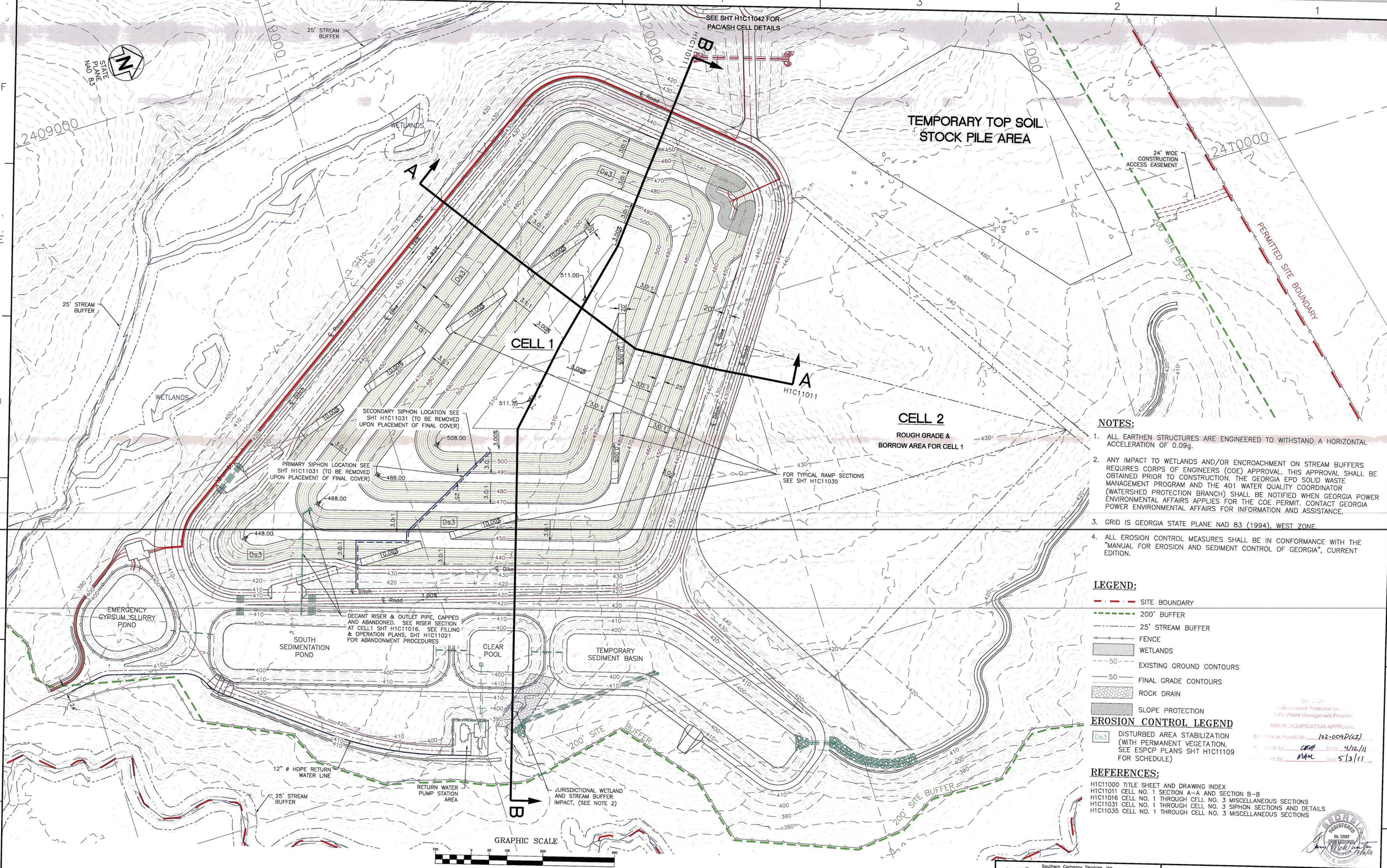
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO.1 SITE DEVELOPMENT
BASE GRADING PLAN

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
5	12-03-10	A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	ECO	PMG	JAH				JBS
4	2-26-10	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	ECO	PMG	JAH				JBS
3	11-25-09	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	ECO	PMG	JAH				JBS
2	7-24-09	A. GENERAL REVISION PER EPD REVIEW "REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	JAA	PMG	JAH				CKT
1	6-01-09	A. GENERAL REVISION PER EPD REVIEW "REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	JAA	PMG	BDP				CKT
0	12-01-08	ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-0780 EWO: 3511DE	JAA	PMG	BDP				CKT

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CON'TD	REV
1"=100'	010505	H1C11005	1	FINAL	5

ANSI F: 40x28 Acad2008



NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA", CURRENT EDITION.

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- 25' STREAM BUFFER
- FENCE
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION. SEE ESPCP PLANS SHT H1C11109 FOR SCHEDULE)

Ga. EPD Environmental Protection Div. Solid Waste Management Program MINOR MODIFICATION APPROVAL
Solid Waste Permit No. 102-009D(LF)
Reviewed By: CEH Date: 4/12/11
Approved By: MAM Date: 5/3/11

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11011 CELL NO. 1 SECTION A–A AND SECTION B–B
H1C11016 CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11031 CELL NO. 1 THROUGH CELL NO. 3 SIPHON SECTIONS AND DETAILS
H1C11035 CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER Gary H. McWhorter 5/6/10

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 5	12-03-10	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							
REVISION 4	2-26-10	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							
REVISION 3	11-25-09	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							
REVISION 2	7-24-09	JAA	PMG	JAH				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							
REVISION 1	6-01-09	JAA	PMG	BDP				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							
REVISION 0	12-01-08	JAA	PMG	BDP				CKT
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							

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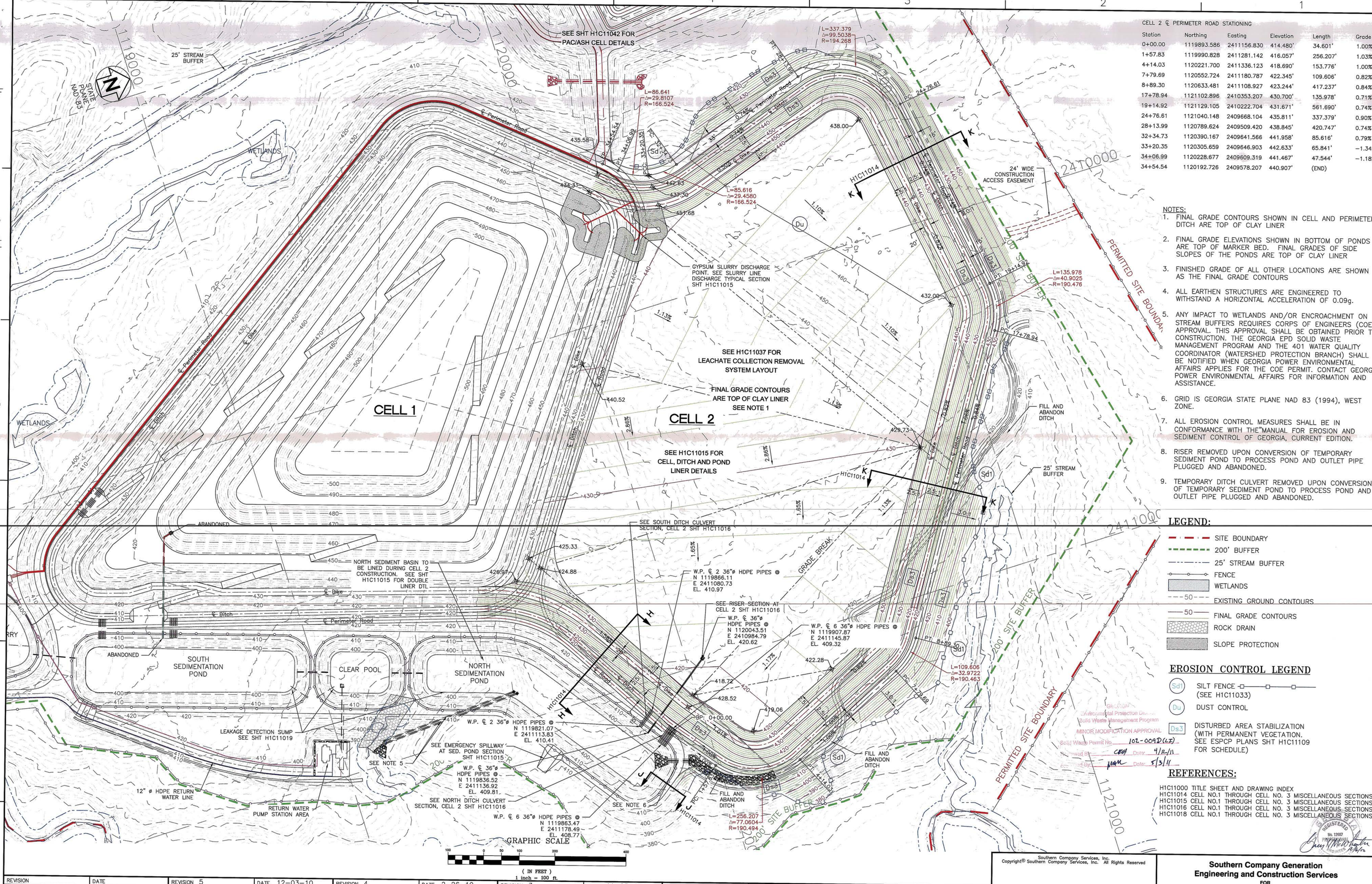
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO.1
FINAL STACKING PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11006	1	FINAL	5

ANSI F: 40x28 Acad2004



CELL 2 ℄ PERIMETER ROAD STATIONING

Station	Northing	Easting	Elevation	Length	Grade
0+00.00	1119893.586	2411156.830	414.480'	34.601'	1.00%
1+57.83	1119990.828	2411281.142	416.057'	256.207'	1.03%
4+14.03	1120221.700	2411336.123	418.690'	153.776'	1.00%
7+79.69	1120552.724	2411180.787	422.345'	109.606'	0.82%
8+89.30	1120633.481	2411108.927	423.244'	417.237'	0.84%
17+78.94	1121102.896	2410353.207	430.700'	135.978'	0.71%
19+14.92	1121129.105	2410222.704	431.671'	561.690'	0.74%
24+76.61	1121040.148	2409668.104	435.811'	337.379'	0.90%
28+13.99	1120789.624	2409509.420	438.845'	420.747'	0.74%
32+34.73	1120390.167	2409641.566	441.958'	85.616'	0.79%
33+20.35	1120305.659	2409646.903	442.633'	65.841'	−1.34%
34+06.99	1120228.677	2409609.319	441.467'	47.544'	−1.18%
34+54.54	1120192.726	2409578.207	440.907'	(END)	

NOTES:
1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SIDE SLOPES OF THE PONDS ARE TOP OF CLAY LINER
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS
4. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
5. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
6. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
7. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE"MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
8. RISER REMOVED UPON CONVERSION OF TEMPORARY SEDIMENT POND TO PROCESS POND AND OUTLET PIPE PLUGGED AND ABANDONED.
9. TEMPORARY DITCH CULVERT REMOVED UPON CONVERSION OF TEMPORARY SEDIMENT POND TO PROCESS POND AND OUTLET PIPE PLUGGED AND ABANDONED.

LEGEND:
- SITE BOUNDARY
- 200' BUFFER
- 25' STREAM BUFFER
- FENCE
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND
- Sd1 SILT FENCE (SEE H1C11033)
- Du DUST CONTROL
- DsJ DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION. SEE ESPCP PLANS SHT H1C11109 FOR SCHEDULE)

REFERENCES:
H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11014 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11015 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11016 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11018 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS

GEORGIA Environmental Protection Div. Solid Waste Management Program MINOR MODIFICATION APPROVAL Solid Waste Permit No. 102-009D(LF) Reviewed By: CBM Date: 4/12/11 Approved By: MM Date: 5/3/11

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 5	12-03-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 4	2-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 3	11-25-09	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 2	7-24-09	JAA	PMG	JAH				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 1	6-01-09	JAA	PMG	BDP				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 0	12-01-08	JAA	PMG	BDP				CKT
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								

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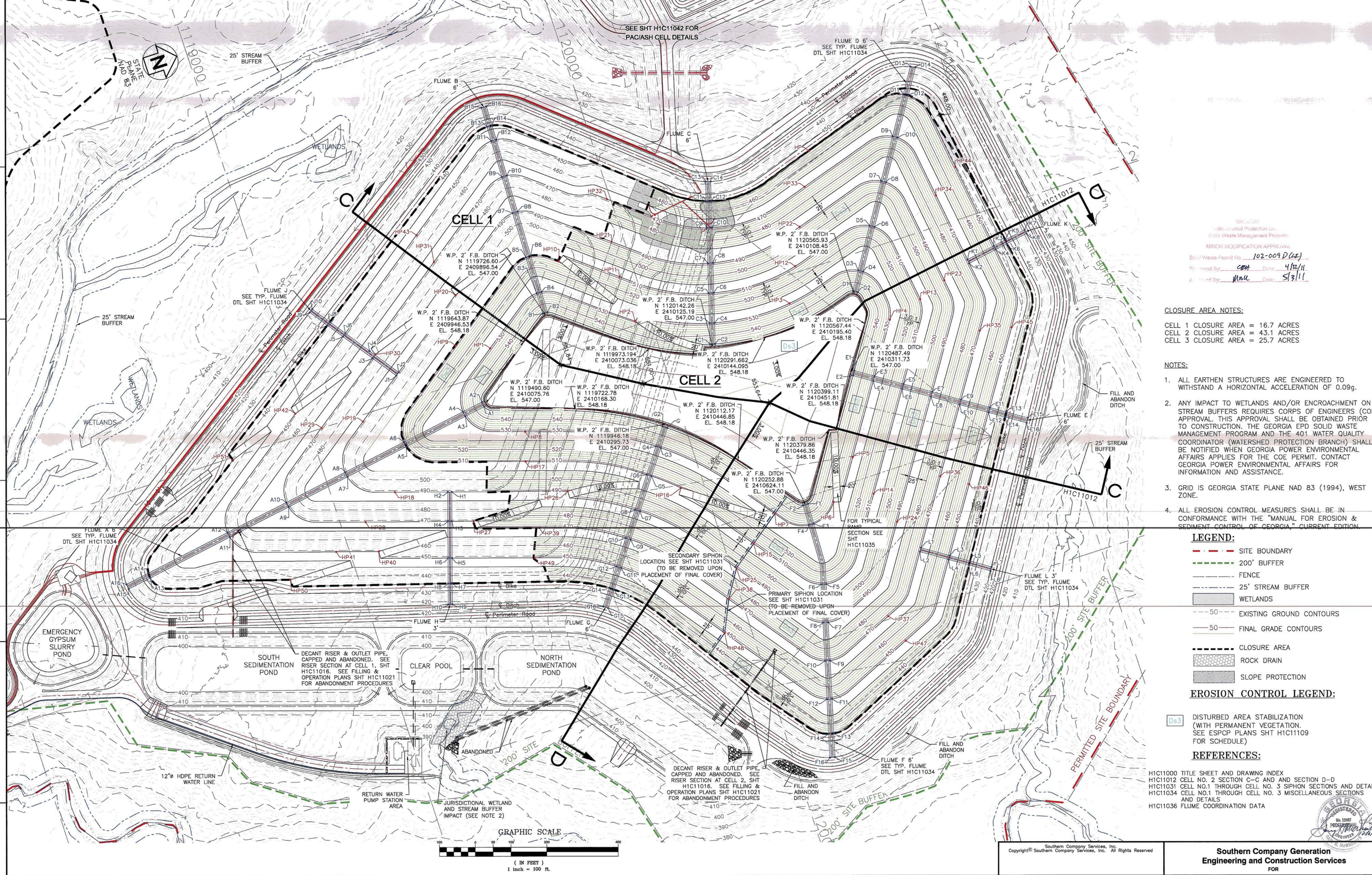
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO.2 SITE DEVELOPMENT
BASE GRADING PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11007	1	FINAL	5

ANSI F: 40x28 Acad2004



Georgia Environmental Protection Div. Solid Waste Management Program

MINOR MODIFICATION APPROVAL

Solid Waste Permit No. 102-009D(SL)

Reviewed By: CBH Date: 4/12/11

Approved By: MMC Date: 5/3/11

CLOSURE AREA NOTES:

CELL 1 CLOSURE AREA = 16.7 ACRES
CELL 2 CLOSURE AREA = 43.1 ACRES
CELL 3 CLOSURE AREA = 25.7 ACRES

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION & SEDIMENT CONTROL OF GEORGIA," CURRENT EDITION.

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- FENCE
- 25' STREAM BUFFER
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- CLOSURE AREA
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND:

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION. SEE ESPCP PLANS SHT H1C11109 FOR SCHEDULE)

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11012 CELL NO. 2 SECTION C-C AND AND SECTION D-D
H1C11031 CELL NO.1 THROUGH CELL NO. 3 SIPHON SECTIONS AND DETAILS
H1C11034 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS AND DETAILS
H1C11036 FLUME COORDINATION DATA

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER Gary H. McWhorter 2/24/10

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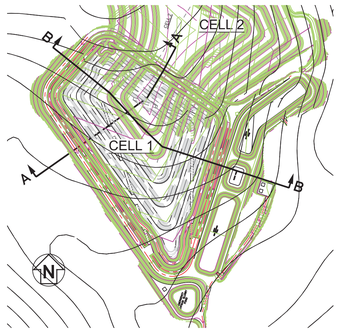
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 1 AND CELL NO. 2
FINAL STACKING PLAN

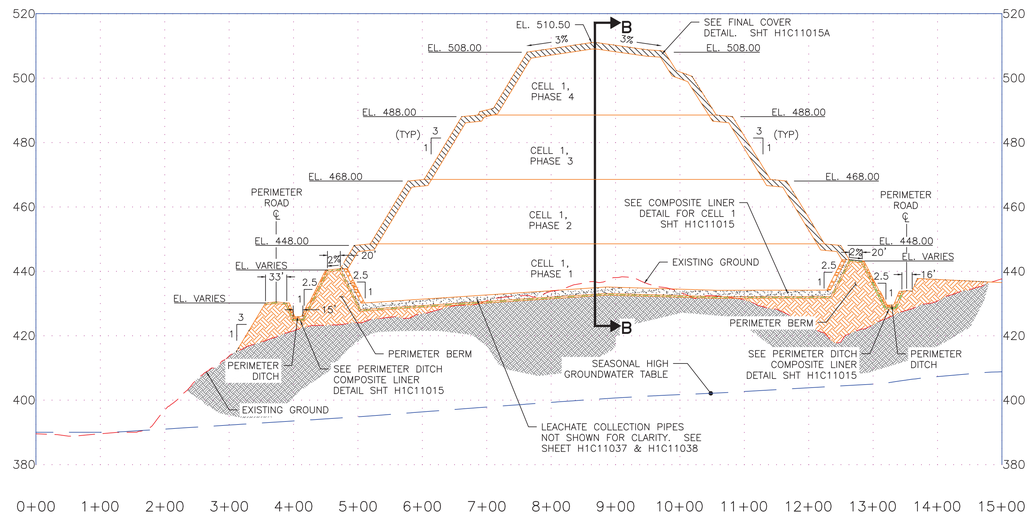
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 5	DATE 12-03-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 4	DATE 2-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 3	DATE 11-25-09	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 2	DATE 7-24-09	JAA	PMG	JAH				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 1	DATE 6-01-09	JAA	PMG	BDP				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 0	DATE 12-01-08	JAA	PMG	BDP				CKT
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11008	1	FINAL	5

ANSI F: 40x28 Acad2004

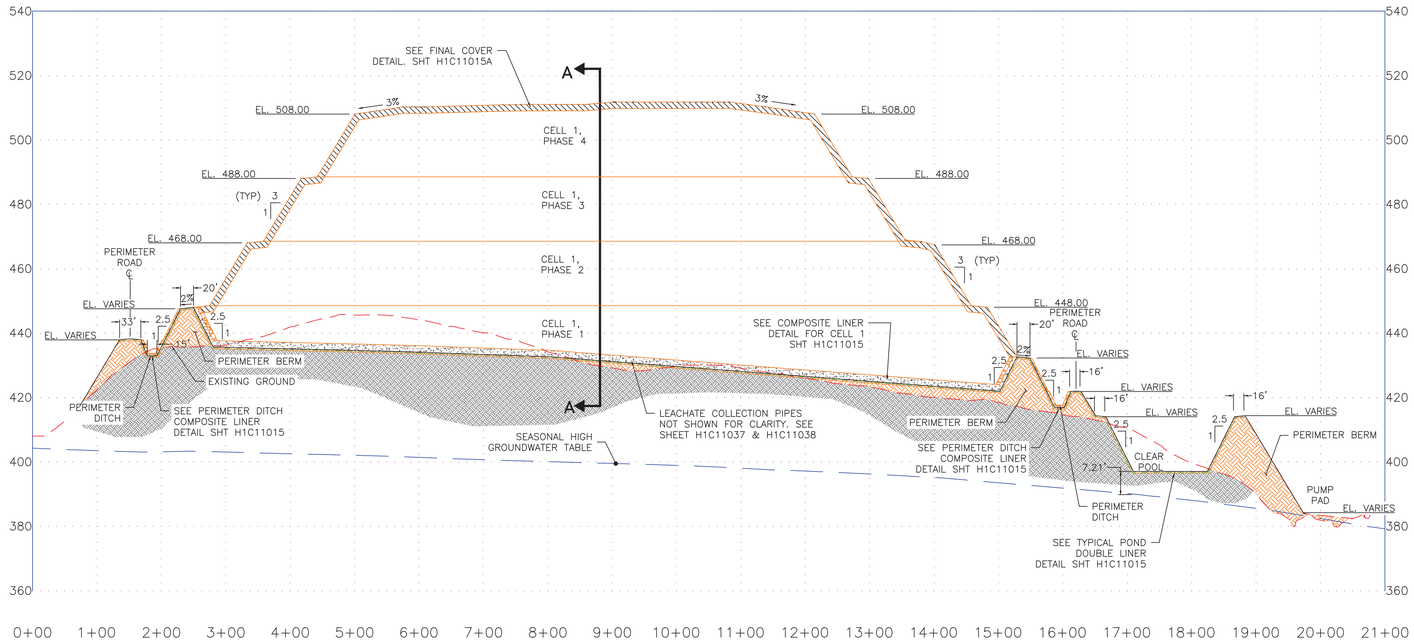


KEY PLAN
NOT TO SCALE



CELL 1
SECTION A-A

SCALE H: 1"=100' V: 1"=20'



CELL 1
SECTION B-B

SCALE H: 1"=100' V: 1"=20'

NOTES:

1. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
2. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
3. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
4. GRADES SHOWN ON THIS SHEET REFLECT FINAL GRADE OF CELL 1 ONLY. SEE SHEET H1C11012 FOR CELL 2 AND CELL 1 FINAL GRADE.

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11006 CELL NO. 1 FINAL STACKING PLAN
H1C11014 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11016 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11017 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS

GEORGIA REGISTERED No. 17383 PROFESSIONAL ENGINEER CLAUDIA M. MOELLER 11-12-18

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 11/12/18

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL 1 SECTION A-A AND SECTION B-B
PERIMETER DIKE THROUGH FINAL STACK

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 4	DATE 11–01–2018	AMC	CMM	RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								
REVISED LABELS ON FINAL COVER AND SHEET TITLES UNDER REFERENCES. UPDATED SEASONAL HIGH POTENTIOMETRIC SURFACE ELEVATIONS.								
REVISION 3	DATE 12–03–10	JAA	PMG	JAH				CKT
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880 EWO: 3511DE								
REVISION 2	DATE 7–24–09	JAA	PMG	JAH				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880 EWO: 3511DE								
REVISION 1	DATE 6–01–09	JAA	PMG	BDP				CKT
A. GENERAL REVISION PER EPD REVIEW								
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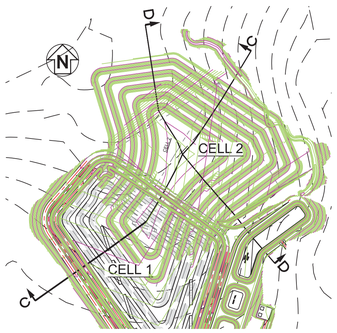
REA: SH–07880 EWO: 3511DE								
REVISION 0	DATE 12–01–08	JWM	PMG	BDP				CKT
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH–07880 EWO: 3511DE								

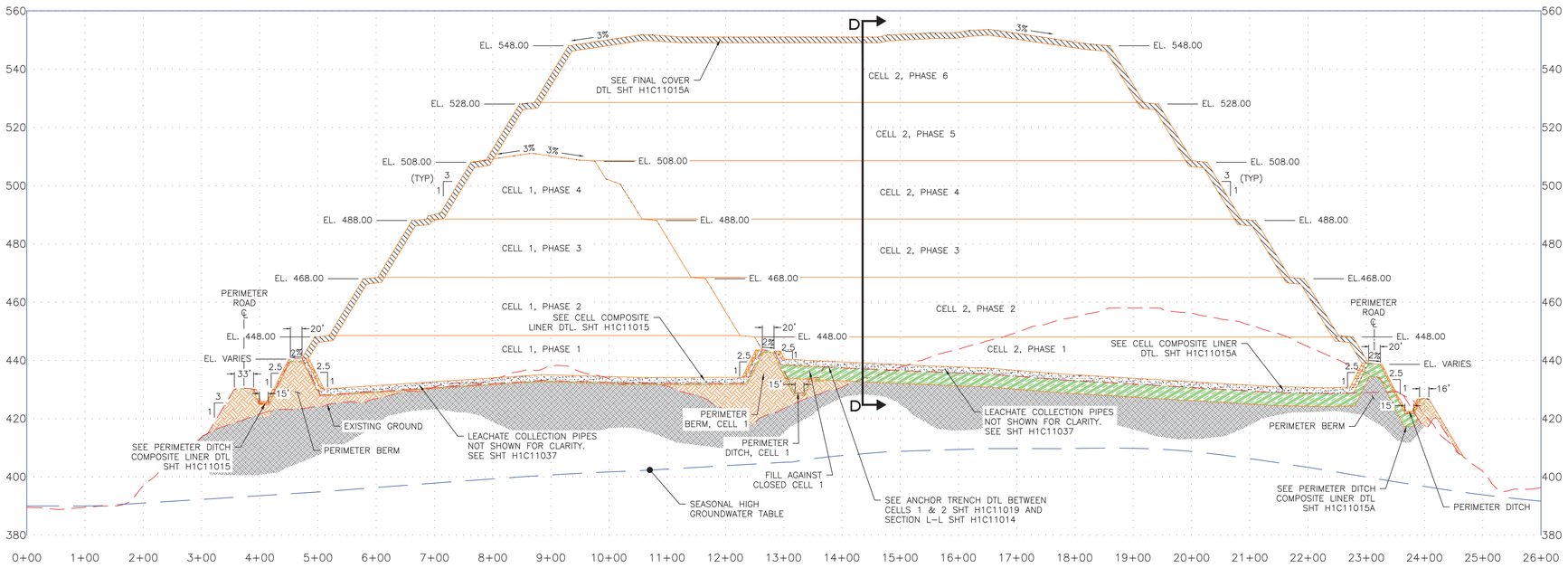
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11011	1	FINAL	4

ANSI F: 40x28 Acad2004



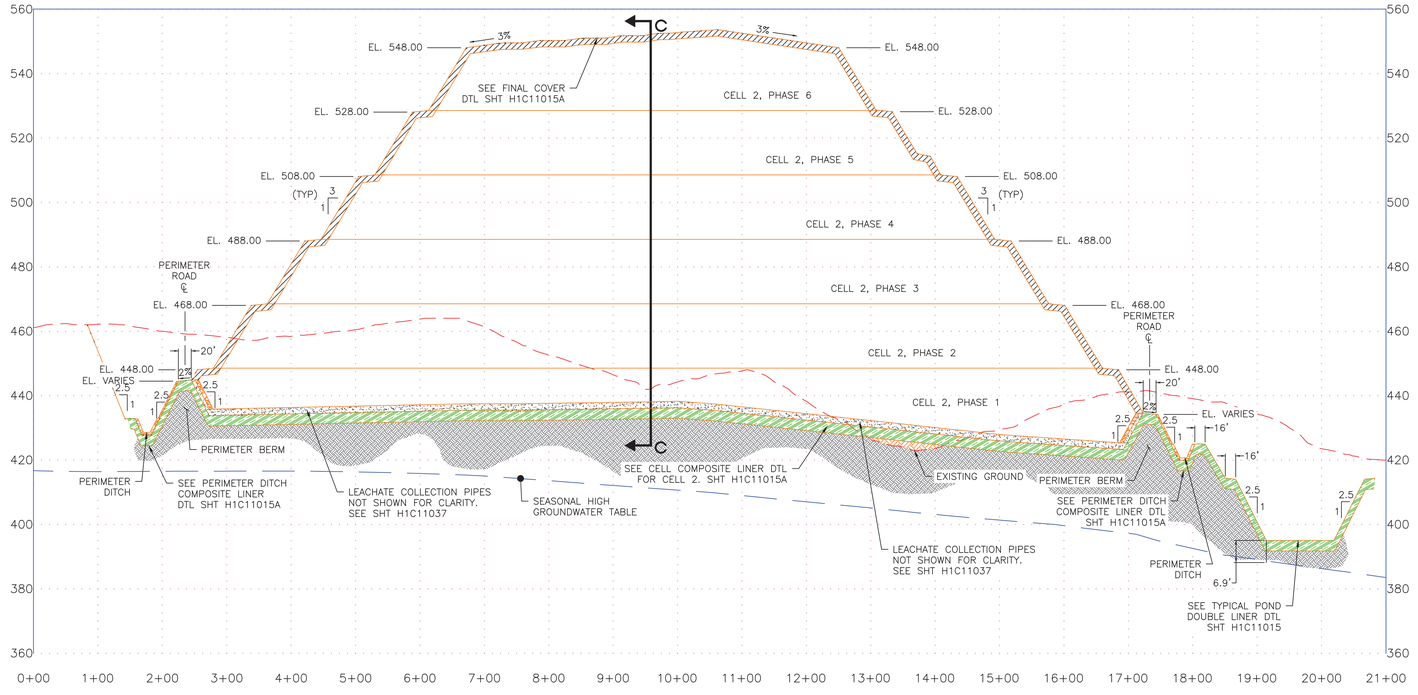
KEY PLAN

N.T.S.



CELL 2
SECTION C-C

SCALE H: 1"=100' V: 1"=20'



CELL 2
SECTION D-D

SCALE H: 1"=100' V: 1"=20'

NOTES:

1. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
2. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
3. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11008 CELL NO. 1 AND CELL NO. 2 FINAL STACKING PLAN
H1C11014 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11016 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11017 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS

GEORGIA REGISTERED No. 17383 PROFESSIONAL 11-12-18 ENGINEER CLAUDIA M. MOELLER

GEORGIA REGISTERED NO. 27185 PROFESSIONAL 11/12/18 ENGINEER R. BRANT LANE

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REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 3	DATE 11-01-2018	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]		AMC	CMM	RBL				
"REVISED SOIL LINER THICKNESS FROM 6" TO 24". REVISED FINAL COVER LABELS. REVISED SHEET TITLES UNDER REFERENCES. UPDATED SEASONAL HIGH POTENTIOMETRIC SURFACE ELEVATIONS."								
REVISION 2	DATE 12-03-10	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR MINOR MODIFICATION		JWM	PMG	BDP				CKT
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							
REVISION 1	DATE 6-01-09	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION PER EPD REVIEW		JWM	PMG	BDP				CKT
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							
REVISION 0	DATE 12-01-08	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ISSUED FOR PERMIT		JWM	PMG	BDP				CKT
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07880	EWO: 3511DE							

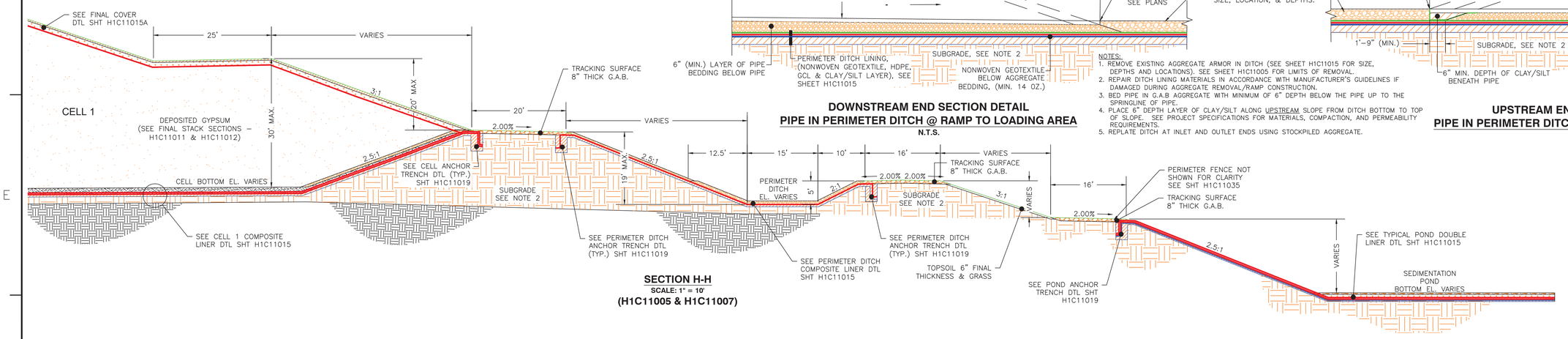
Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

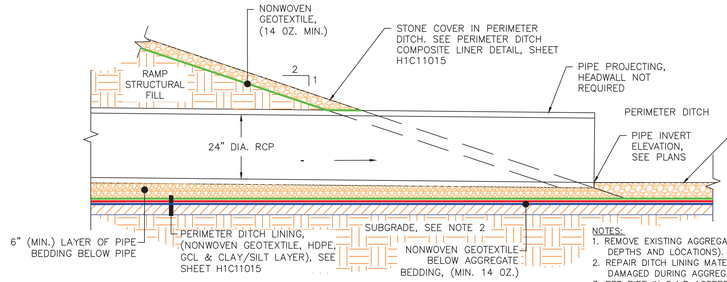
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL 2 SECTION C-C AND SECTION D-D
PERIMETER DIKE THROUGH FINAL STACK

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CON'T'D	REV
AS SHOWN	010505	**H1C11012**	1	FINAL	3

ANSI F: 40x28 Acad2004

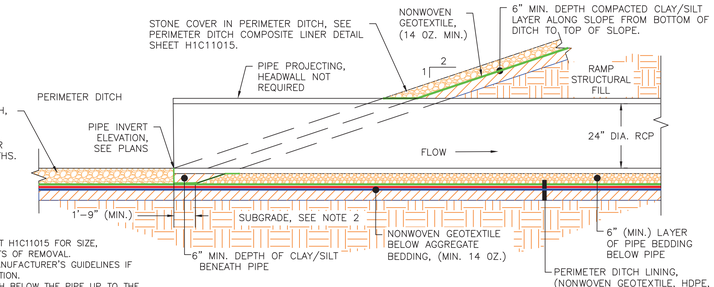


SECTION H-H
SCALE: 1" = 10'
(H1C11005 & H1C11007)

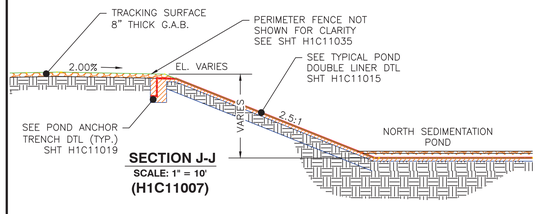


DOWNSTREAM END SECTION DETAIL
PIPE IN PERIMETER DITCH @ RAMP TO LOADING AREA
N.T.S.

NOTES:
1. REMOVE EXISTING AGGREGATE ARMOR IN DITCH (SEE SHEET H1C11015 FOR SIZE, DEPTHS AND LOCATIONS). SEE SHEET H1C11005 FOR LIMITS OF REMOVAL.
2. REPAIR DITCH LINING MATERIALS IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES IF DAMAGED DURING AGGREGATE REMOVAL/RAMP CONSTRUCTION.
3. BED PIPE IN G.A.B AGGREGATE WITH MINIMUM OF 6" DEPTH BELOW THE PIPE UP TO THE SPRINGLINE OF PIPE.
4. PLACE 6" DEPTH LAYER OF CLAY/SILT ALONG UPSTREAM SLOPE FROM DITCH BOTTOM TO TOP OF SLOPE. SEE PROJECT SPECIFICATIONS FOR MATERIALS, COMPACTION, AND PERMEABILITY REQUIREMENTS.
5. REPLATE DITCH AT INLET AND OUTLET ENDS USING STOCKPILED AGGREGATE.

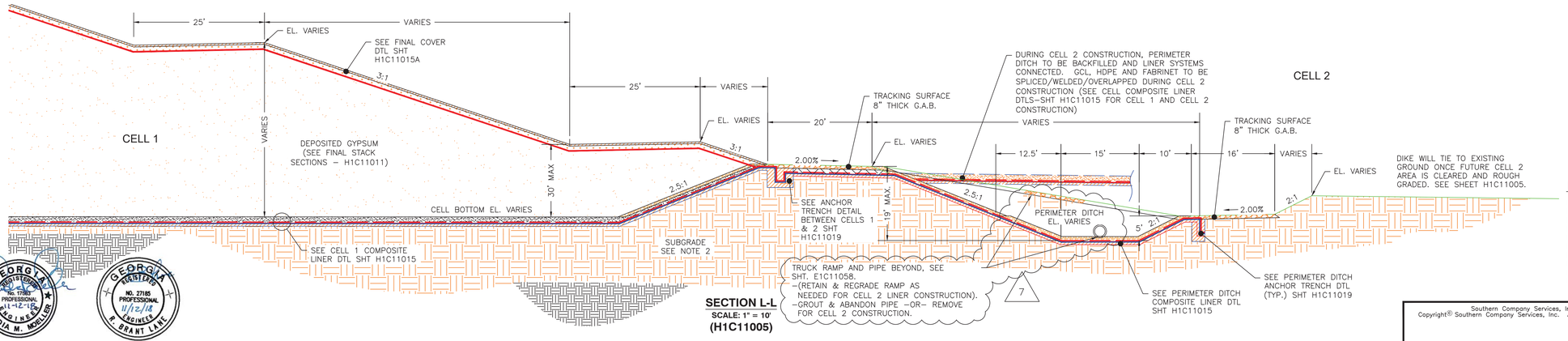


UPSTREAM END SECTION DETAIL
PIPE IN PERIMETER DITCH @ RAMP TO LOADING AREA
N.T.S.



SECTION J-J
SCALE: 1" = 10'
(H1C11007)

SECTION K-K
SCALE: 1" = 10'
(H1C11005 & H1C11007)



SECTION L-L
SCALE: 1" = 10'
(H1C11005)

NOTES:
1. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN–PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF–ROLLING CRITERIA FOR IN–PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.
3. CELLS 2 SOIL LINER THICKNESS IS 24''. CELL 1 SOIL LINER THICKNESS IS 6''.
4. LEACHATE COLLECTION SYSTEM PIPING NOT SHOWN FOR CLARITY.

REFERENCES:
H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11004 GENERAL SITE DEVELOPMENT AND CELL LAYOUT
H1C11005 CELL NO. 1 – SITE DEVELOPMENT BASE GRADING SHEET
H1C11007 CELL NO. 2 – SITE DEVELOPMENT BASE GRADING SHEET
H1C11011 CELL 1 SECTION A–A AND SECTION B–B PERIMETER DIKE THROUGH FINAL STACK
H1C11012 CELL 2 SECTION C–C AND SECTION D–D PERIMETER DIKE THROUGH FINAL STACK
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11035 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS AND DETAILS

GEORGIA REGISTERED No. 17360 PROFESSIONAL ENGINEER CLAUDIA M. MCMILLER 11-12-18

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 11/12/18

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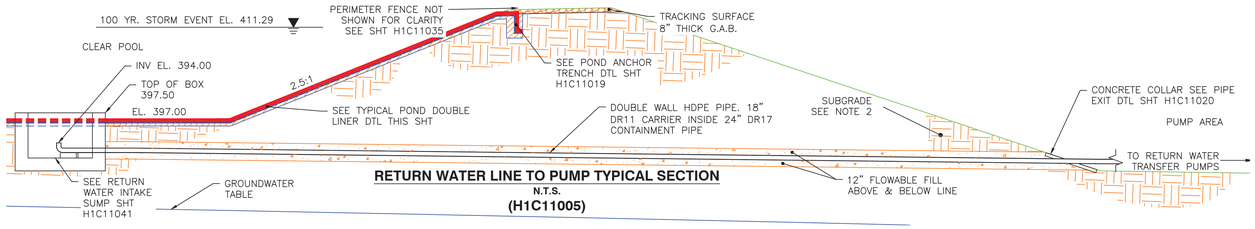
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS SECTIONS

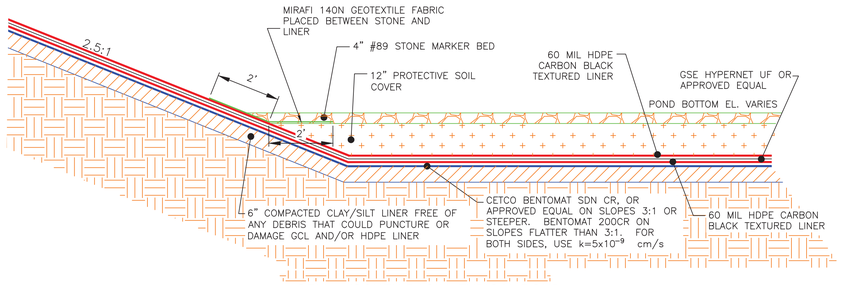
REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
8	11-01-2018	CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.] REVISED LABELS ON FINAL COVER AND ADDED NOTES 3 AND 4. CORRECTED REFERENCE DRAWING TITLE AND REVISED REFERENCES.	AMC	CMM	RBL				
7	5-08-15	ISSUED FOR MINOR MODIFICATION "REV. 7 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY WENJUN WANG, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 028893." MWO: GPC381513	CRU	PMG	RCB				KAM
6	7-31-14	ISSUED FOR MINOR MODIFICATION "REV. 6 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." MWO: GPC381513	CRU	PMG	RCB				ELM
5	12-03-10	A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	ECO	PMG	JAH				JBS
4	2-26-10	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	ECO	PMG	JAH				JBS
3	11-25-09	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	ECO	PMG	JAH				JBS
0	12-01-08	ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA:SH–07880 EWO:3511DE	EEJ	PMG	BDP				CKT

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	**H1C11014**	1	FINAL	8

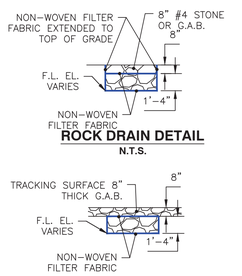
ANSI F: 40x28 Acad2004



RETURN WATER LINE TO PUMP TYPICAL SECTION
N.T.S.
(H1C11005)

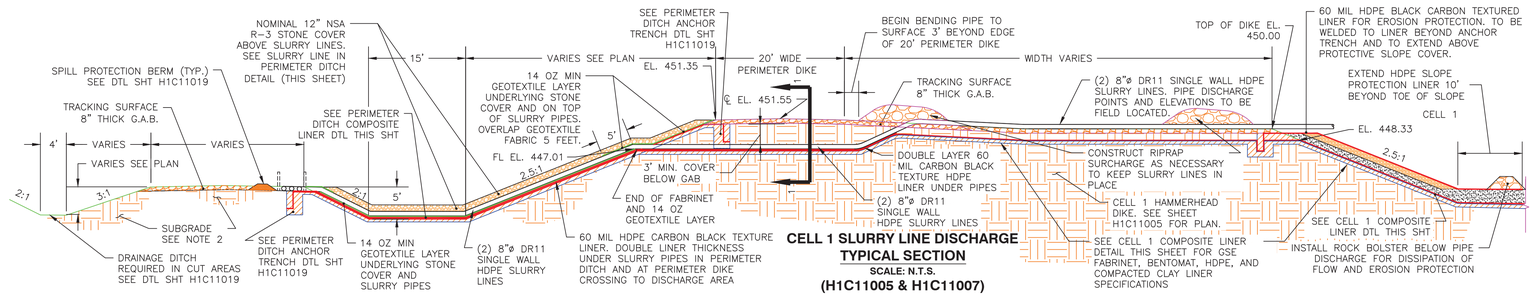


CELL 1 (SOUTH BASIN) TYPICAL POND DOUBLE LINER DETAIL
N.T.S.

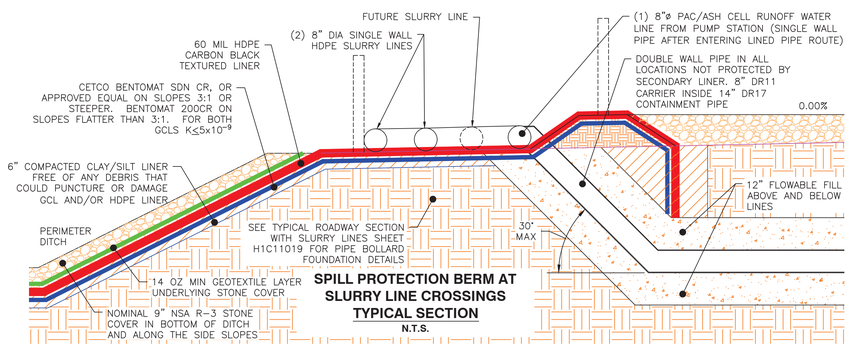


ROCK DRAIN DETAIL
N.T.S.

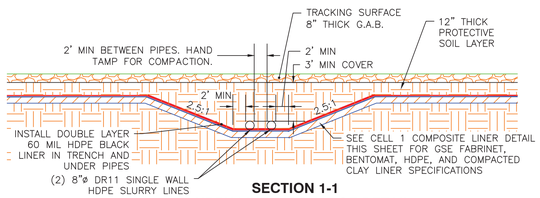
ROCK DRAIN DETAIL @ ACCESS ROAD
N.T.S.



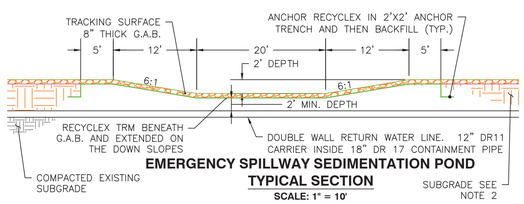
CELL 1 SLURRY LINE DISCHARGE TYPICAL SECTION
SCALE: N.T.S.
(H1C11005 & H1C11007)



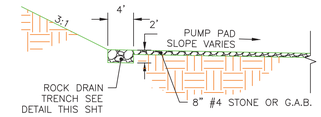
SPILL PROTECTION BERM AT SLURRY LINE CROSSINGS TYPICAL SECTION
N.T.S.



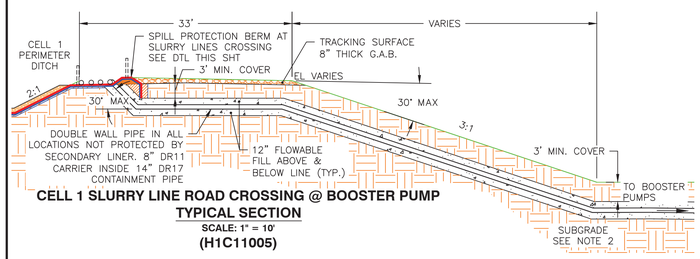
SECTION 1-1
SLURRY LINE DISCHARGE DETAIL
SCALE: N.T.S.



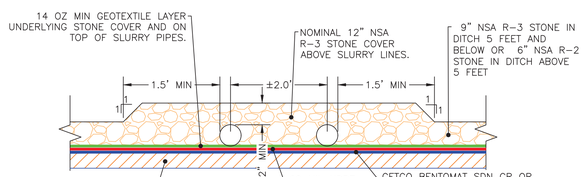
EMERGENCY SPILLWAY SEDIMENTATION POND TYPICAL SECTION
SCALE: 1" = 10'
(H1C11005)



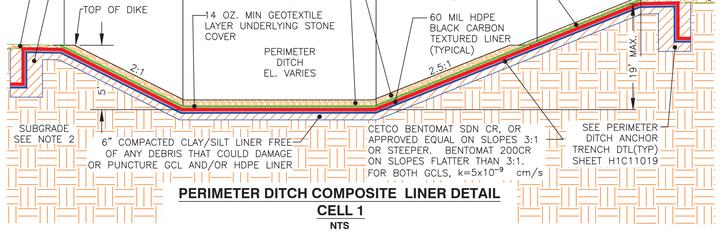
PUMP PAD ROCK DRAIN TYPICAL SECTION
SCALE: 1" = 10'
(H1C11005)



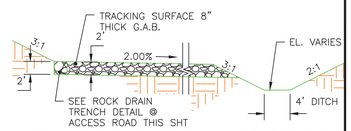
CELL 1 SLURRY LINE ROAD CROSSING @ BOOSTER PUMP TYPICAL SECTION
SCALE: 1" = 10'
(H1C11005)



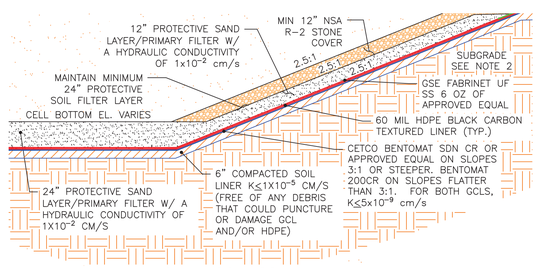
CELL 1 SLURRY LINE IN PERIMETER DITCH DETAIL
SCALE: NTS



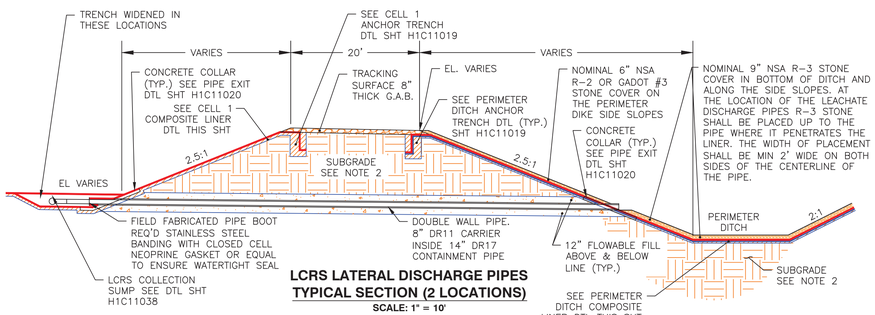
PERIMETER DITCH COMPOSITE LINER DETAIL
CELL 1
NTS



PUMP PAD ROCK DRAIN @ ACCESS ROAD TYPICAL SECTION
SCALE: 1" = 10'
(H1C11005)



CELL 1 COMPOSITE LINER DETAIL
NTS



LCRS LATERAL DISCHARGE PIPES TYPICAL SECTION (2 LOCATIONS)
SCALE: 1" = 10'
(H1C11037)

NOTES:

1. G.A.B WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.
3. CELL 2 SOIL LINER THICKNESS IS 24". CELL 1 SOIL LINER THICKNESS IS 6".

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11005 CELL NO. 1 – SITE DEVELOPMENT BASE GRADING SHEET
H1C11007 CELL NO. 2 – SITE DEVELOPMENT BASE GRADING SHEET
H1C11014 CELL NO. 1 AND CELL NO. 2 DIKE SECTIONS
H1C11015A CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11020 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11035 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS AND DETAILS
H1C11037 CELL NO. 1 AND CELL NO. 2 LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT
H1C11038 CELL NO. 1 AND CELL NO. 2 LEACHATE COLLECTION AND REMOVAL SYSTEM DETAILS
H1C11041 CELL NO. 1 THROUGH CELL NO. 3 CLEAR POOL RETURN WATER INTAKE PLAN AND SECTIONS

GEORGIA REGISTERED No. 17582 PROFESSIONAL ENGINEER CLAUDIA M. MOELLER 11-12-18

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 11/12/18

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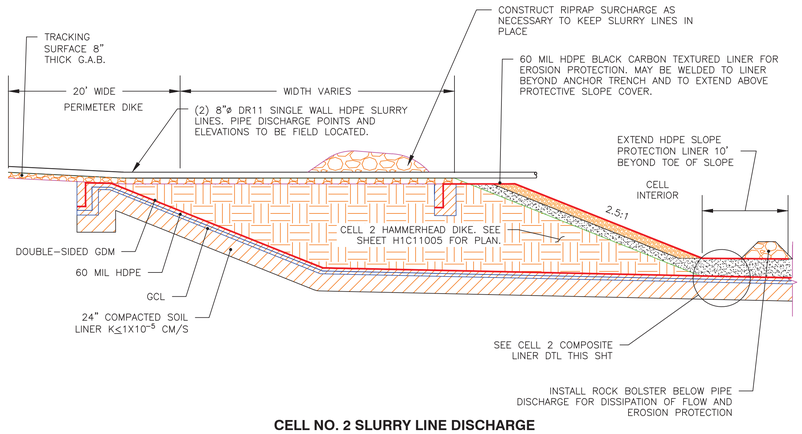
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS SECTIONS

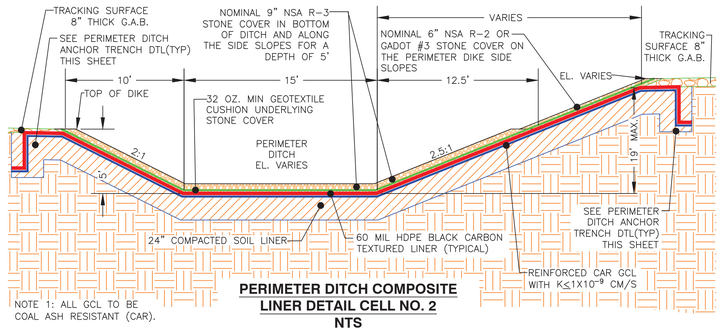
REVISION	DATE		BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
6	11-01-2018	CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.] REVISED DETAILS TO ACCOUNT FOR DESIGN MODIFICATIONS IN CELLS NO. 2 AND 3. MOVED SOME DETAILS TO SHEET H1C11015A FOR CLARITY.	AMC	CMM	RBL				
5	12-03-10	A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	EEJ	PMG	JAH				JBS
4	2-26-10	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	EEJ	PMG	JAH				JBS
3	11-25-09	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	ECO	PMG	JAH				JBS
2	7-24-09	A. GENERAL REVISION PER EPD REVIEW "REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	JWM	PMG	JAH				CKT
1	6-01-09	A. GENERAL REVISION PER EPD REVIEW "REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	JAA	PMG	BDP				CKT
0	12-01-08	ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA:SH-07880 EWO:3511DE	EEJ	PMG	BDP				CKT

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11015	1	FINAL	6

ANSI F: 40x28 Acad2004

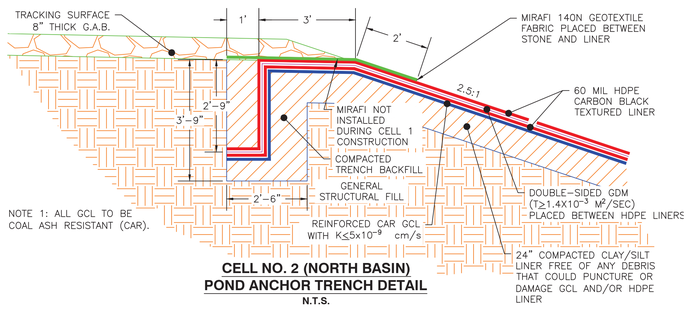


CELL NO. 2 SLURRY LINE DISCHARGE
TYPICAL SECTION
NTS
(H1C11005 & H1C11007)



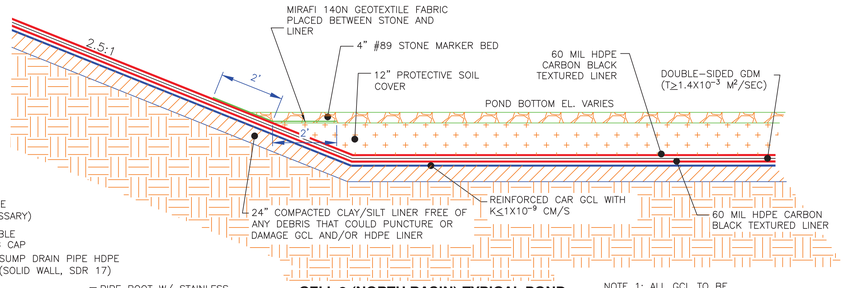
NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

PERIMETER DITCH COMPOSITE LINER DETAIL CELL NO. 2
NTS



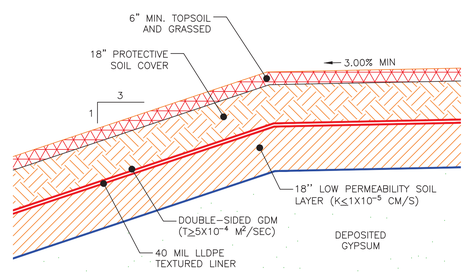
NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

CELL NO. 2 (NORTH BASIN)
POND ANCHOR TRENCH DETAIL
N.T.S.

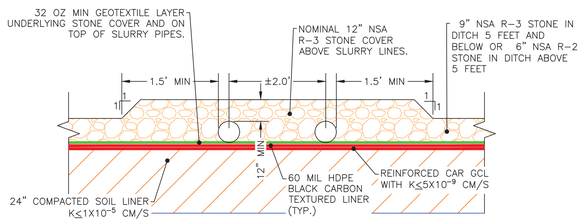


CELL 2 (NORTH BASIN) TYPICAL POND
DOUBLE LINER DETAIL
N.T.S.

NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

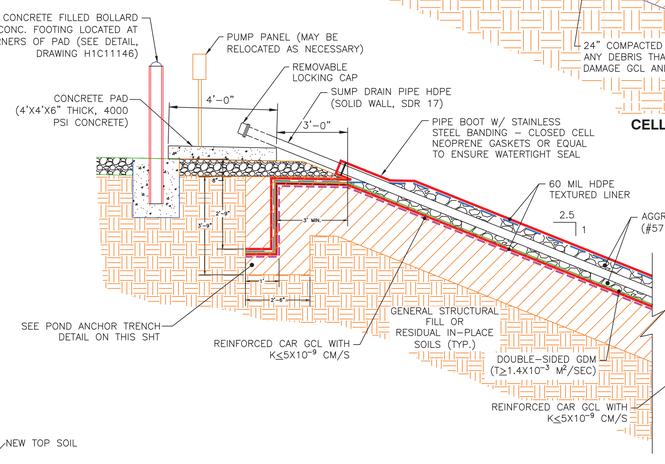


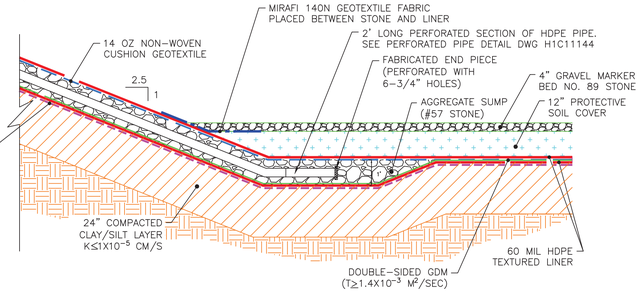
FINAL COVER DETAIL
CELLS 1, 2, AND
PAC/ASH CELL
NTS



CELL 2 SLURRY LINE IN PERIMETER DITCH DETAIL
SCALE: NTS

NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

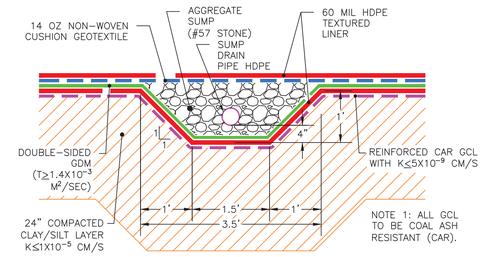




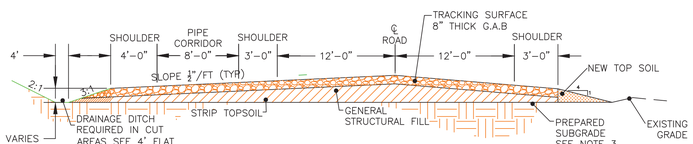
NOTES:

1. CLEAR POOL HAS AN 8" DIA SUMP DRAIN PIPE.
2. OWNER MAY INCREASE THE SIZE OF THE SUMP DRAIN PIPE IN ORDER TO FACILITATE THE INSTALLATION AND MAINTENANCE OF SUMP PUMPS.
3. OWNER MAY INSTALL A FLOW METER AS NECESSARY TO RECORD FLOW RATES.
4. ALL GCL TO BE COAL ASH RESISTANT (CAR).

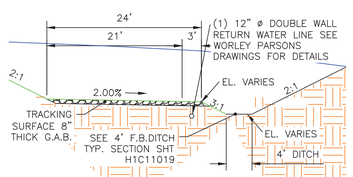
TYPICAL CELL NO. 2 POND (NORTH BASIN)
LEAKAGE DETECTION SUMP DETAIL
N.T.S.



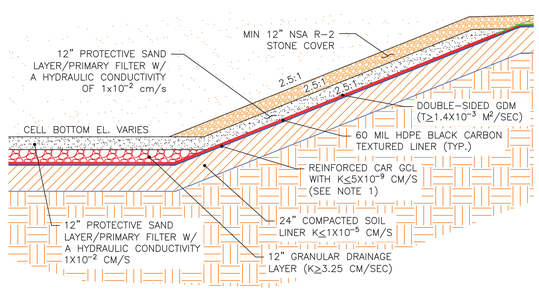
CELL 2 (NORTH BASIN) TYPICAL LEAKAGE DETECTION
SUMP DRAIN PIPE DETAIL
N.T.S.



PERMANENT ACCESS ROAD
TYPICAL SECTION CELL 1 AND CELL 2
NTS
(H1C11005)

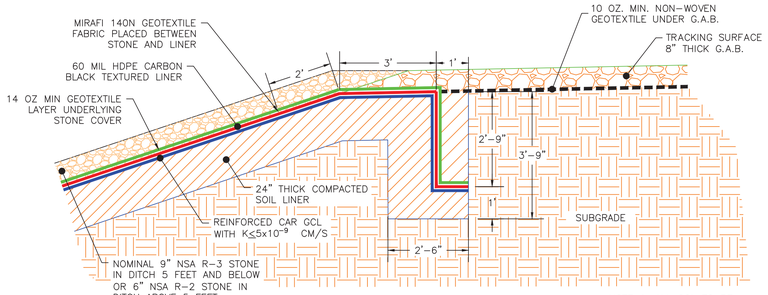


PUMP ACCESS ROAD TYPICAL SECTION
(H1C11005)
NTS



CELL 2 COMPOSITE LINER DETAIL
NTS

NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).



NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

PERIMETER DITCH ANCHOR TRENCH DETAIL
FOR CELL 2
NTS

REFERENCES:

H1C11007 CELL NO. 2 – SITE DEVELOPMENT BASE GRADING SHEET
H1C11008 CELL NO. 1 AND CELL NO. 2 – FINAL STACKING PLAN
H1C11012 CELL 2 – SECTION C–C AND SECTION D–D PERIMETER DIKE THROUGH FINAL STACK
H1C11014 CELL NO. 1 AND CELL NO. 2 DIKE SECTIONS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11020 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS

NOTES:

1. G.A.B WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.
3. CELL 2 SOIL LINER THICKNESS IS 24". CELL 1 SOIL LINER THICKNESS IS 6".

GEORGIA REGISTERED No. 17383 PROFESSIONAL ENGINEER CLAUDIA M. MOELLER

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER R. BRANT LANE

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS SECTIONS

REVISION	DATE
1	11-01-2018

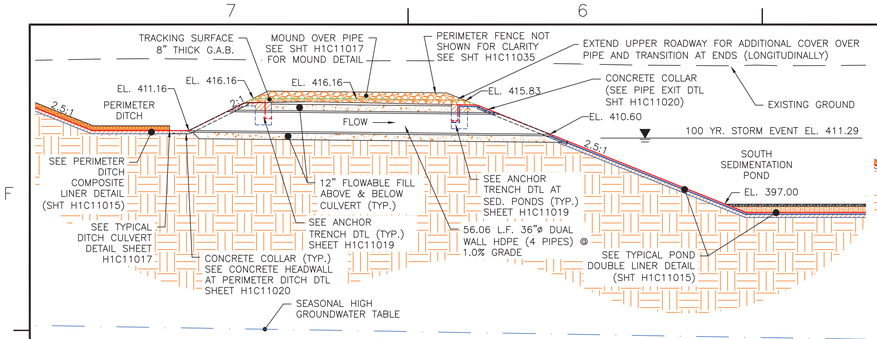
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

REVISED FINAL COVER DETAIL, INCREASED THE SOIL LINER THICKNESS TO 24 INCHES FOR CELL NO. 2. REVISED GRANULAR DRAINAGE MATERIAL FOR CELL NO. 2.

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
AMC	CMM	RBL				

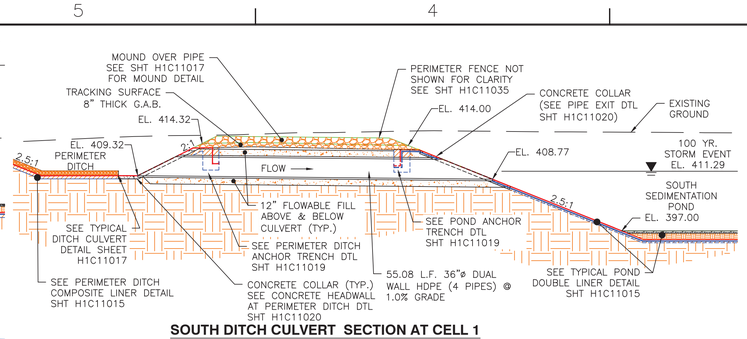
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CON'T'D	REV
AS NOTED	010505	H1C11015A	1	FINAL	1

ANSI F: 40x28 Acad2004



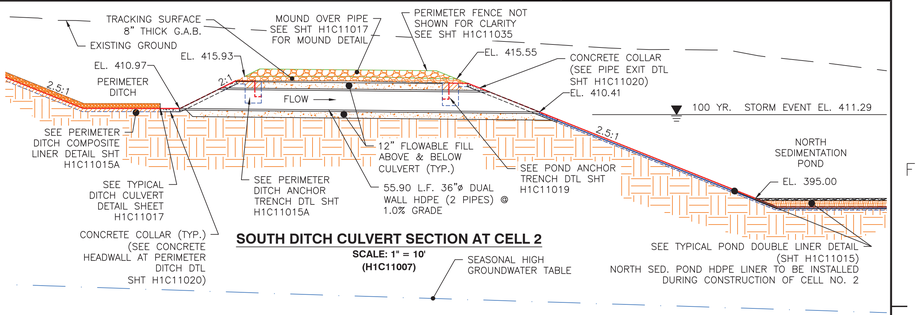
NORTH DITCH CULVERT SECTION AT CELL 1

SCALE: 1" = 10'
(H1C11005)



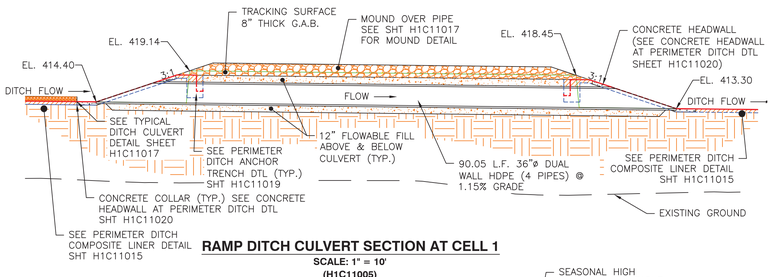
SOUTH DITCH CULVERT SECTION AT CELL 1

SCALE: 1" = 10'
(H1C11005)



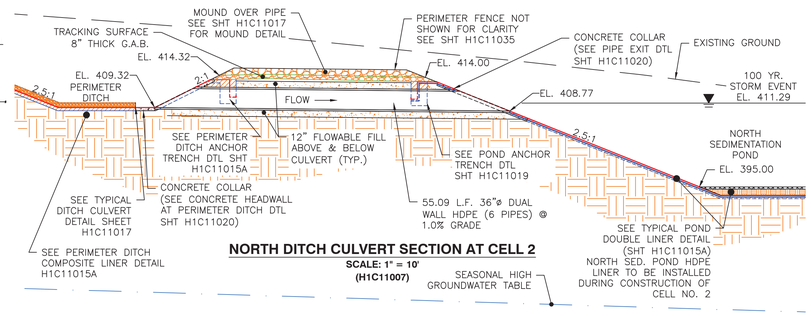
SOUTH DITCH CULVERT SECTION AT CELL 2

SCALE: 1" = 10'
(H1C11007)



RAMP DITCH CULVERT SECTION AT CELL 1

SCALE: 1" = 10'
(H1C11005)



NORTH DITCH CULVERT SECTION AT CELL 2

SCALE: 1" = 10'
(H1C11007)

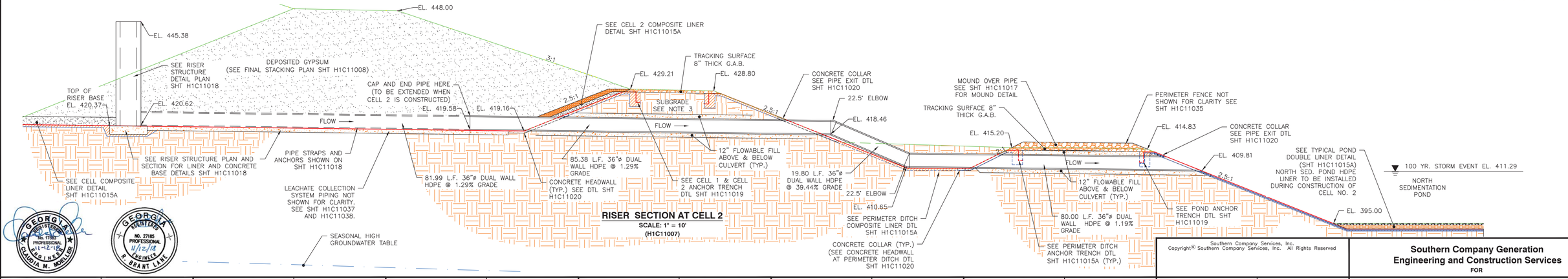
NOTE:
1. DECANT PIPES AND DITCH CULVERT PIPES SHALL BE HANCOR BLUE SEAL OR ADS DUAL WALL/N-12 WT 1B HDPE PIPE.
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES:
H1C11006 CELL NO. 1 FINAL STACKING PLAN
H1C11008 CELL NO. 1 AND CELL NO. 2 FINAL STACKING PLAN
H1C11011 CELL NO. 1 SECTION A-A AND SECTION B-B PERIMETER DIKE THROUGH FINAL STACK
H1C11012 CELL NO. 2 SECTION C-C AND SECTION D-D PERIMETER DIKE THROUGH FINAL STACK
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11017 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11018 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11020 CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS DETAILS
H1C11035 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS AND DETAILS
H1C11037 CELL NO. 1 AND CELL NO. 2 LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT
H1C11038 CELL NO. 1 AND CELL NO. 2 LEACHATE COLLECTION AND REMOVAL SYSTEM DETAILS



RISER SECTION AT CELL 1

SCALE: 1" = 10'
(H1C11005)



RISER SECTION AT CELL 2

SCALE: 1" = 10'
(H1C11007)

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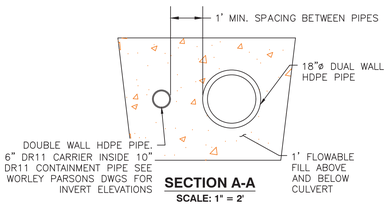
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS SECTIONS

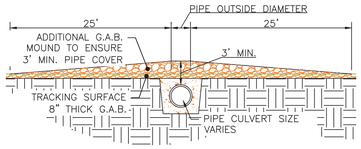
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
6	11-01-2018	AMC	CMM	RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								
REVISED DRAWING TITLES IN REFERENCES AND REMOVED CELL 3 DETAILS/SECTIONS.								
5	12-03-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
4	2-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
3	11-25-09	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
2	7-24-09	JWM	PMG	JAH				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
1	6-01-09	ECO	PMG	BDP				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
0	12-1-08	ECO	PMG	BDP				CKT
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO:3511DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11016	1	FINAL	6

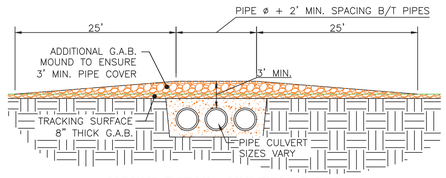
ANSI F: 40x28 Acad2004



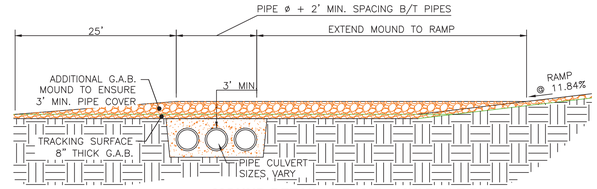
SECTION A-A
SCALE: 1" = 2'



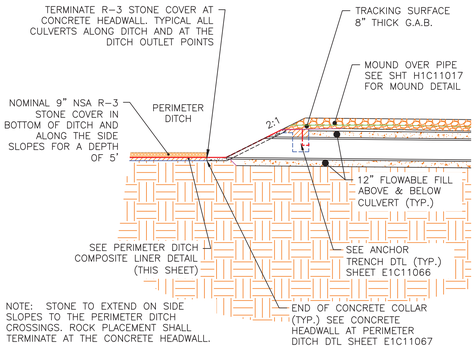
MOUND DETAIL-SINGLE PIPE
SCALE: 1" = 10'
(H1C11016 & H1C11017)



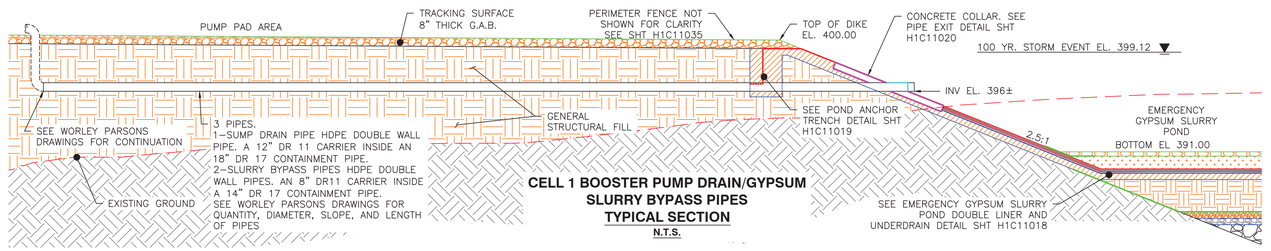
MOUND DETAIL - MULTIPLE PIPES
SCALE: 1" = 10'
(H1C11016 & H1C11017)



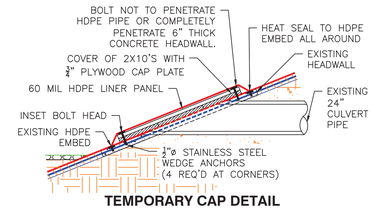
MOUND DETAIL @ RAMP - MULTIPLE PIPES
SCALE: 1" = 10'
(H1C11016 & H1C11017)



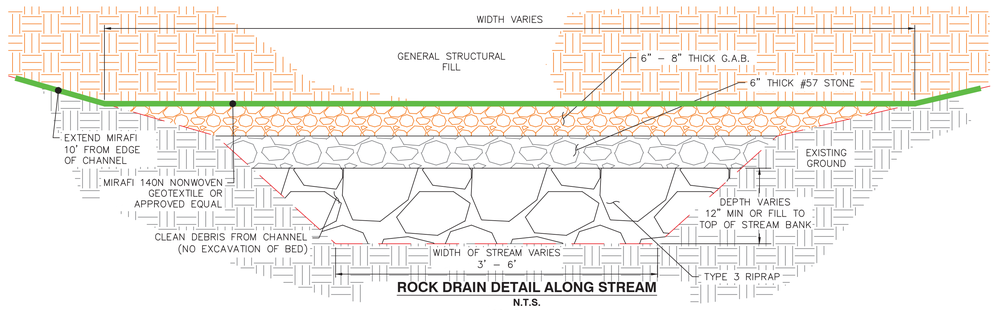
TYPICAL DITCH CULVERT DETAIL AT CELL 1 (4 LOCATIONS)
SCALE: 1" = 10'
(H1C11005)



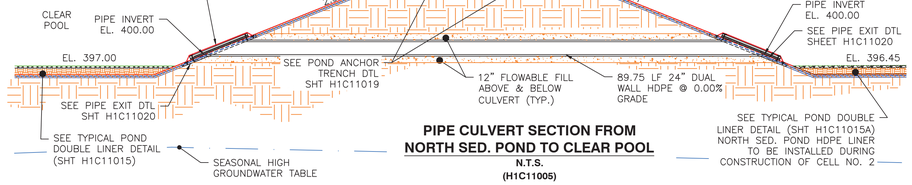
CELL 1 BOOSTER PUMP DRAIN/GYPSUM SLURRY BYPASS PIPES TYPICAL SECTION
N.T.S.



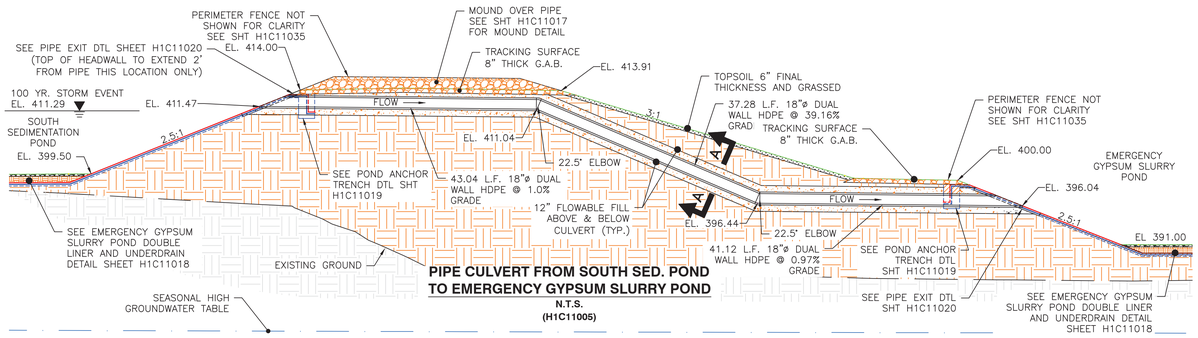
TEMPORARY CAP DETAIL TYP. FOR EACH END OF CULVERT BETWEEN NORTH SED. POND AND CLEAR POOL
N.T.S.



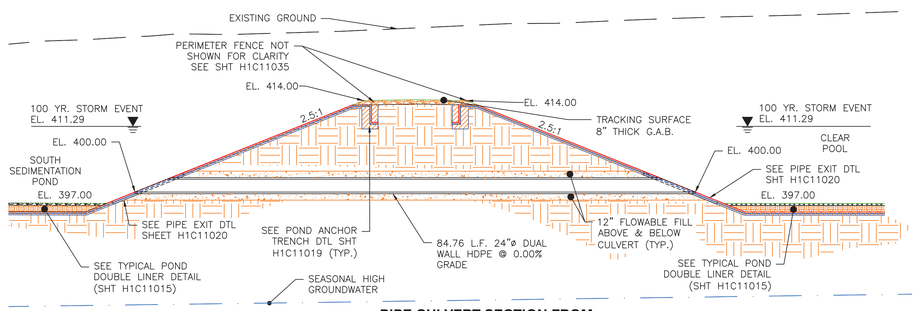
ROCK DRAIN DETAIL ALONG STREAM
N.T.S.
H1C11005



PIPE CULVERT SECTION FROM NORTH SED. POND TO CLEAR POOL
N.T.S.
(H1C11005)



PIPE CULVERT FROM SOUTH SED. POND TO EMERGENCY GYPSUM SLURRY POND
N.T.S.
(H1C11005)



PIPE CULVERT SECTION FROM SOUTH SED. POND TO CLEAR POOL
N.T.S.
(H1C11005)

NOTES:
1. DECANT PIPES AND DITCH CULVERT PIPES SHALL BE HANCOR BLUE SEAL OR ADS DUAL WALL/N-12 WT 1B HDPE PIPE
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

GEORGIA REGISTERED No. 17865 PROFESSIONAL 11-12-15 ENGINEER CLAUDIA M. MOELLER

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE

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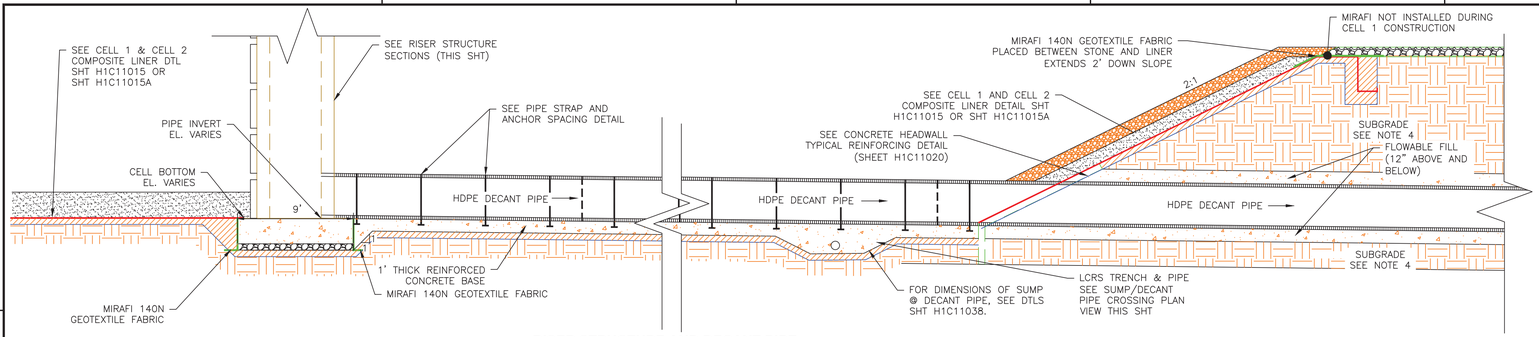
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS SECTIONS

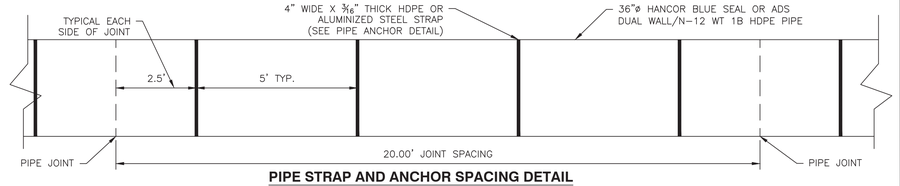
REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
6	11-01-2018	CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.] REMOVED DETAILS ASSOCIATED WITH CELL NO. 3	AMC	CMM	RBL				
5	12-03-10	A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	EEJ	PMG	JAH				JBS
4	2-26-10	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	EEJ	PMG	JAH				JBS
3	11-25-09	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	ECO	PMG	JAH				JBS
2	7-24-09	A. GENERAL REVISION PER EPD REVIEW "REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	JWM	PMG	JAH				CKT
1	6-01-09	A. GENERAL REVISION PER EPD REVIEW "REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	JAA	PMG	BDP				CKT
0	12-1-08	ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO:3511DE	ECO	PMG	BDP				CKT

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11017	1	FINAL	6

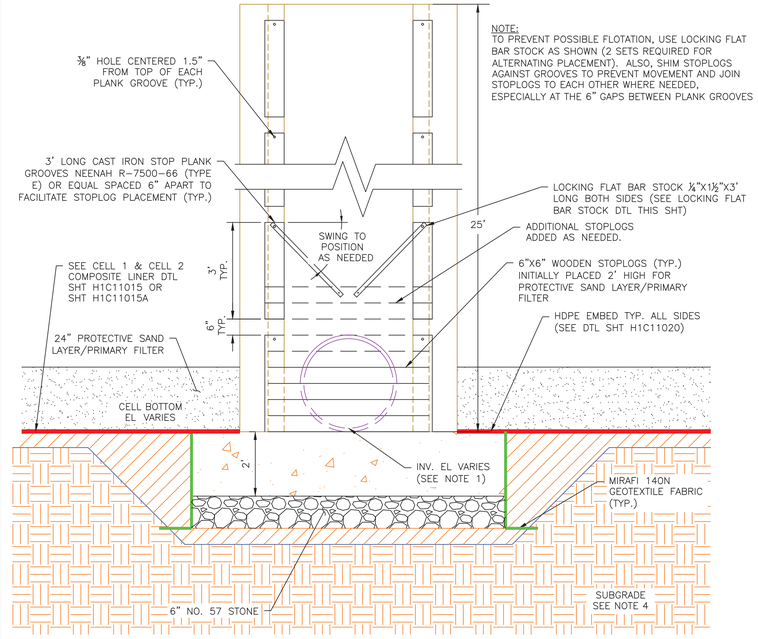
ANSI F: 40x28 Acad2004



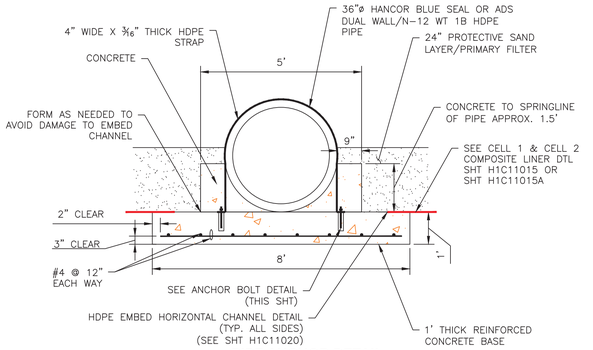
RISER STRUCTURE AND DECANT PIPE
N.T.S.



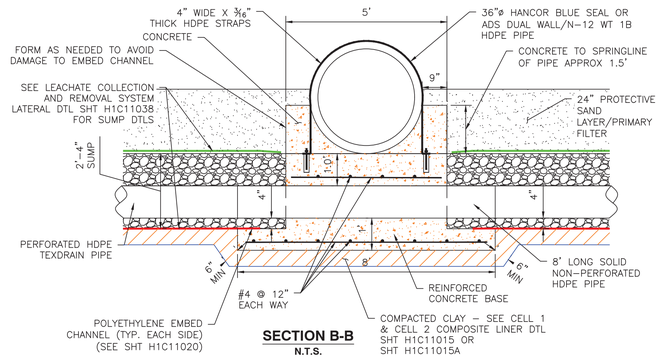
PIPE STRAP AND ANCHOR SPACING DETAIL
N.T.S.



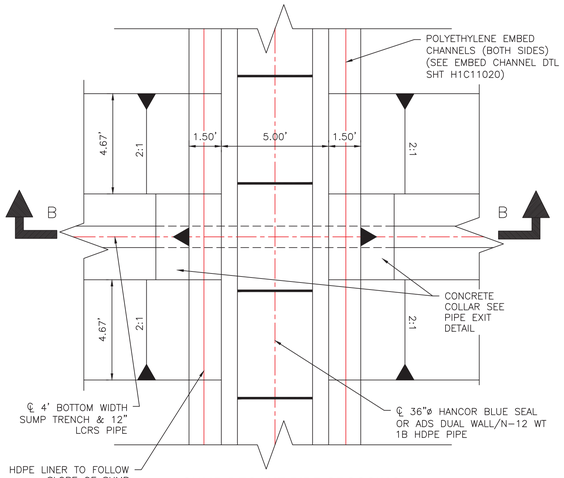
RISER STRUCTURE SECTION
N.T.S.



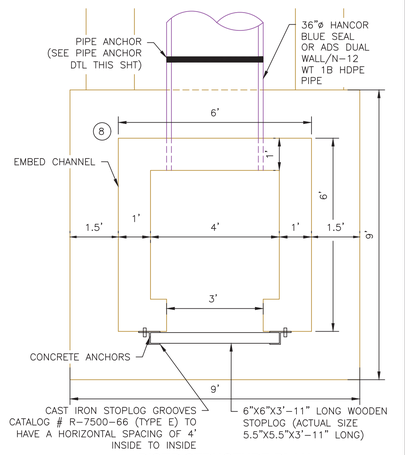
PIPE ANCHOR DETAIL
N.T.S.



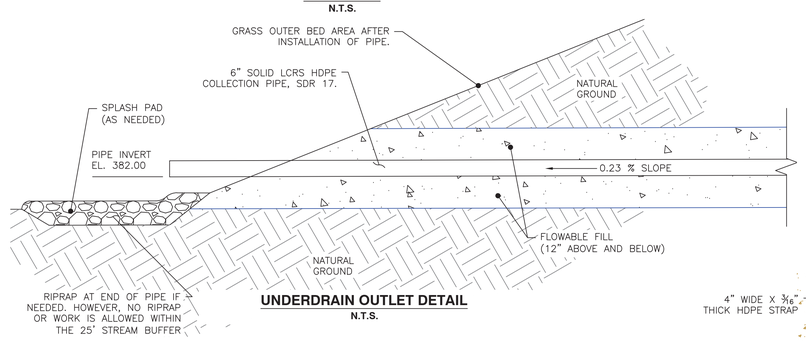
SECTION B-B
N.T.S.



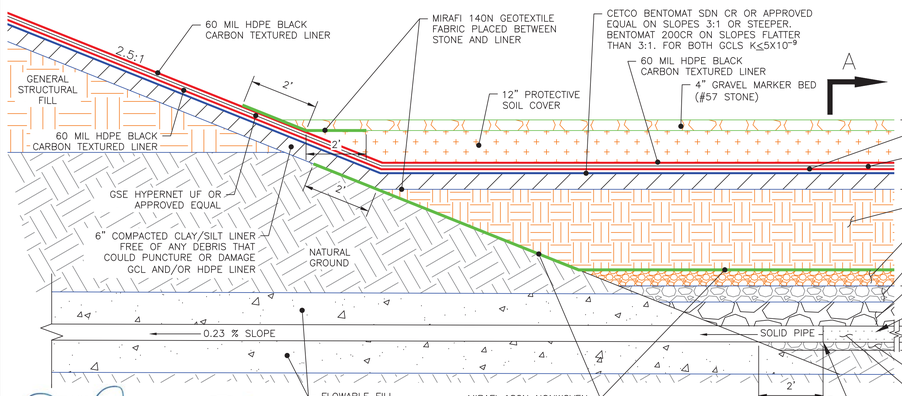
SUMP/DECANT PIPE CROSSING PLAN VIEW
N.T.S.



RISER STRUCTURE PLAN
N.T.S.

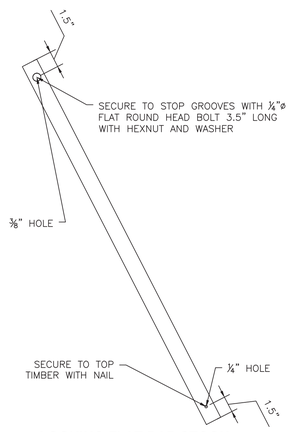


UNDERDRAIN OUTLET DETAIL
N.T.S.

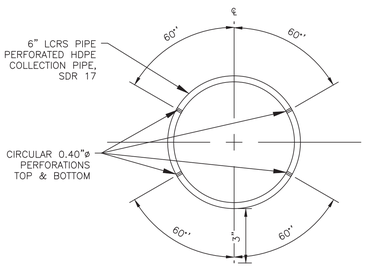


EMERGENCY GYPSUM SLURRY POND DOUBLE LINER AND UNDERDRAIN DETAIL
N.T.S.

SECTION A-A
N.T.S.

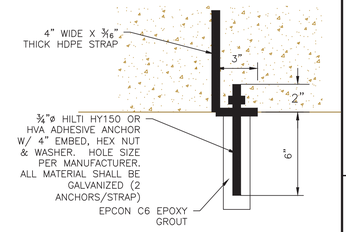


LOCKING FLAT BAR STOCK DETAIL
N.T.S.



PERFORATED PIPE DETAIL FOR UNDERDRAIN
N.T.S.

NOTE: 6" DIA. PERFORATED PIPE TO HAVE AASHTO CLASS 1 PERFORATIONS-6 ROWS OF PERFORATIONS REQ'D PER FT-OF-PIPE (12 PER LF OF PIPE OR 24 TOTAL FOR 2' LONG PERFORATED SECTION)



ANCHOR BOLT DETAIL
N.T.S.

NOTES:
1. FOR CORRESPONDING ELEVATIONS, PIPE LENGTHS AND SLOPES FOR EACH RISER STRUCTURE FOR CELLS 1 & 2 SEE SHEET H1C11016.
2. ALL CONCRETE AND METAL THAT WILL BE EXPOSED TO OR IN CONTACT WITH GYPSUM AND/OR GYPSUM SLURRY WATER SHALL BE COATED WITH CHEMPRUF 2410 LINING SYSTEM BY ATLAS MINERALS & CHEMICALS, INC. OR APPROVED EQUAL.
3. RISER STRUCTURE REINFORCEMENT SCHEDULE TO BE PROVIDED IN CONSTRUCTION DRAWINGS
4. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

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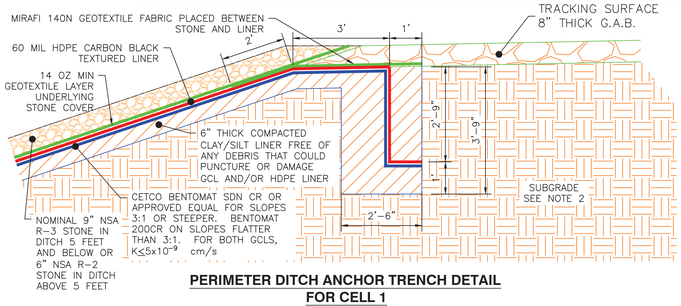
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS DETAILS

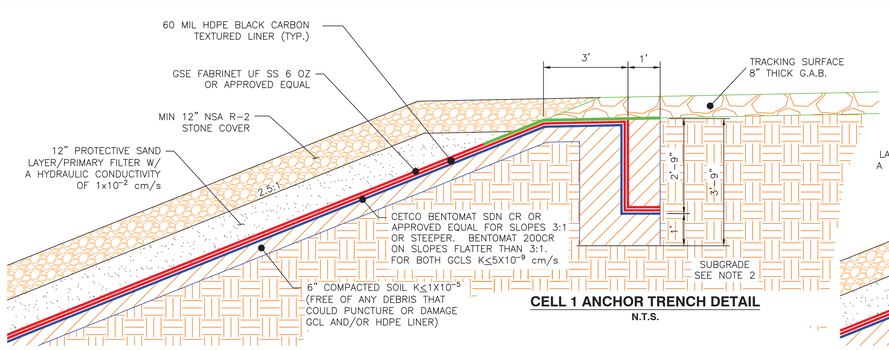
REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
6	11-01-2018	CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.] REVISED NOTE 1 AND REMOVED REFERENCES TO CELL NO. 3	AMC	CMM	RBL				
5	12-03-10	A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	ECO	PMG	JAH				JBS
4	2-26-10	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	ECO	PMG	JAH				JBS
3	11-25-09	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	ECO	PMG	JAH				JBS
2	7-24-09	A. GENERAL REVISION PER EPD REVIEW "REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	JWM	PMG	JAH				CKT
1	6-01-09	A. GENERAL REVISION PER EPD REVIEW "REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	ECO	PMG	BDP				CKT
0	12-01-08	ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA:SH-07880 EWO:3511DE	JWM	PMG	BDP				CKT

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11018	1	FINAL	5

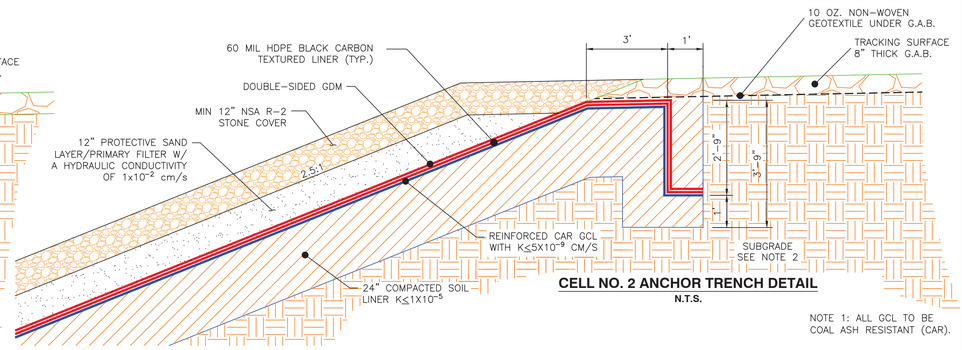
ANSI F: 40x28 Acad2004



PERIMETER DITCH ANCHOR TRENCH DETAIL FOR CELL 1
N.T.S.

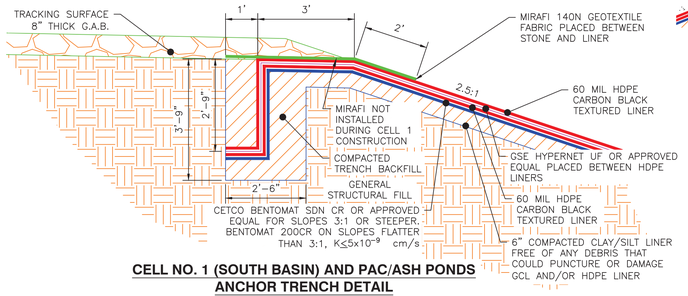


CELL 1 ANCHOR TRENCH DETAIL
N.T.S.

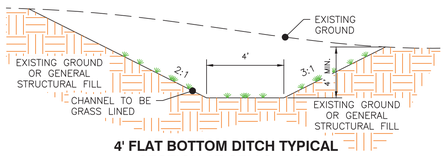


CELL NO. 2 ANCHOR TRENCH DETAIL
N.T.S.

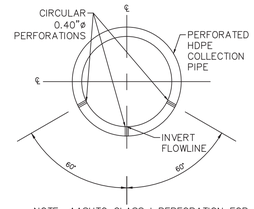
NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).



CELL NO. 1 (SOUTH BASIN) AND PAC/ASH PONDS ANCHOR TRENCH DETAIL
N.T.S.

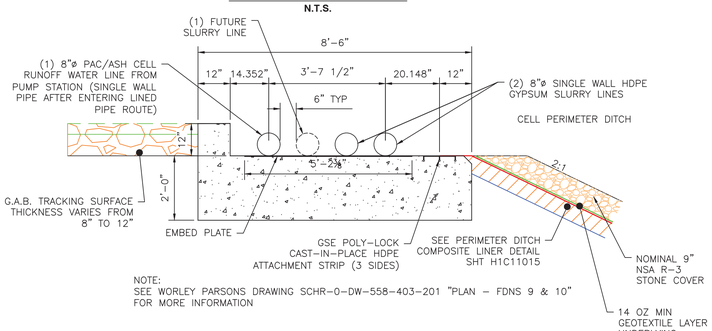


4' FLAT BOTTOM DITCH TYPICAL SECTION AT CELLS 1, & 2
N.T.S.



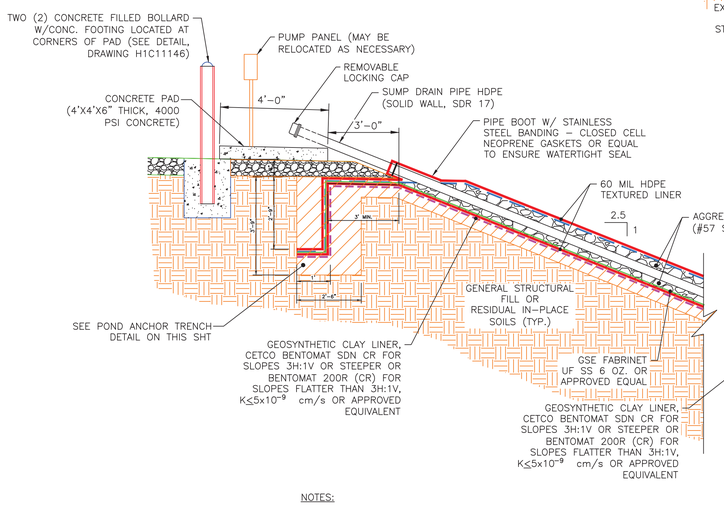
NOTE: AASHTO CLASS I PERFORATION FOR 18"ø PIPE–6 ROWS OF PERFORATIONS REQ'D PER FT–OF–PIPE (18 PER LF OF PIPE OR 36 TOTAL FOR 2' LONG PERFORATED SECTION)

PERFORATED PIPE DETAIL
N.T.S.



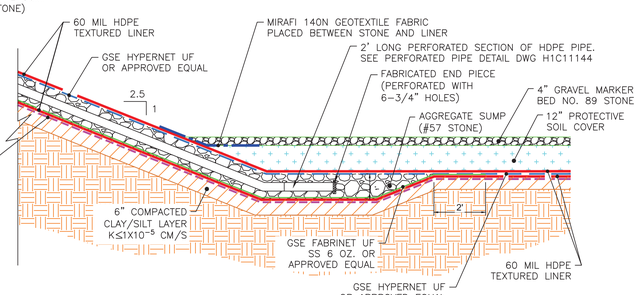
NOTE:
SEE WORLEY PARSONS DRAWING SCHR-0-DW-558-403-201 "PLAN – FDNS 9 & 10" FOR MORE INFORMATION

HDPE LINED PIPE ROUTE AIR RELEASE VALVE FOUNDATION SECTION
N.T.S.

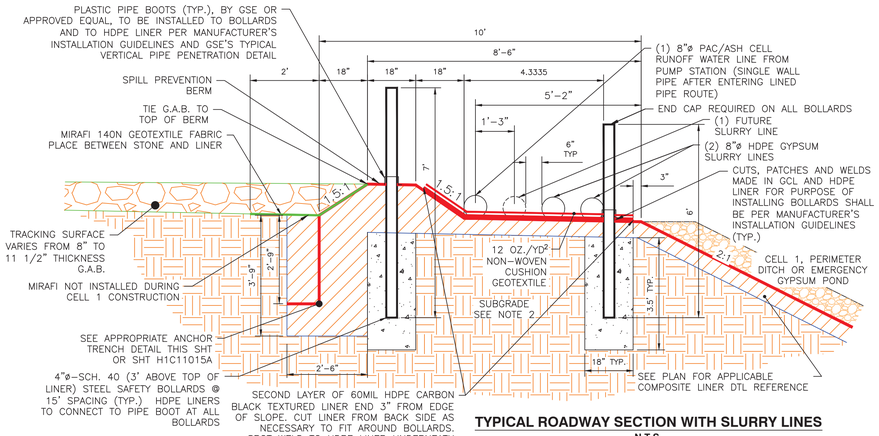


NOTES:

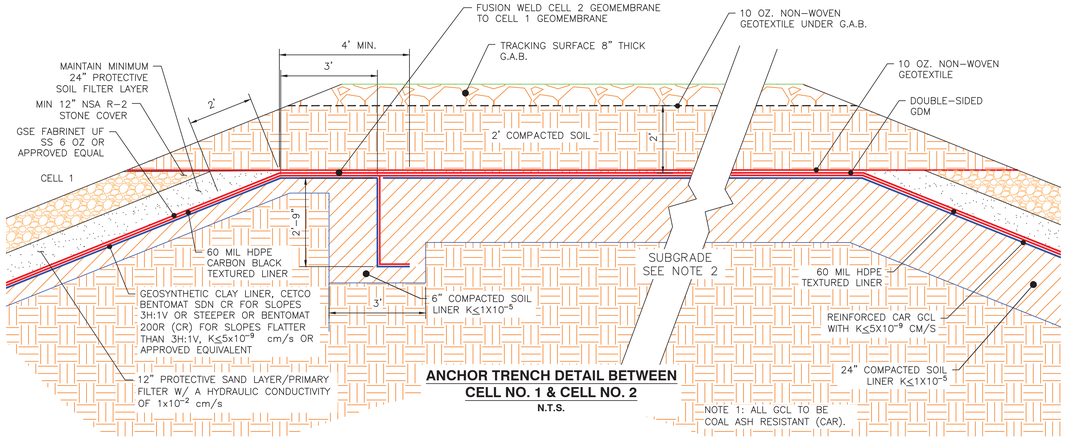
1. OWNER MAY INCREASE THE SIZE OF THE SUMP DRAIN PIPE IN ORDER TO FACILITATE THE INSTALLATION AND MAINTENANCE OF SUMP PUMPS.
2. OWNER MAY INSTALL A FLOW METER AS NECESSARY TO RECORD FLOW RATES.



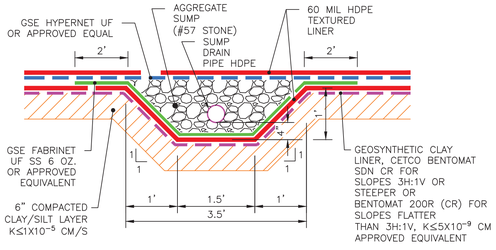
TYPICAL CELL NO. 1 AND NO. 2 (SOUTH BASIN) AND PAC/ASH PONDS LEAKAGE DETECTION SUMP DETAIL
N.T.S.



TYPICAL ROADWAY SECTION WITH SLURRY LINES
N.T.S.



ANCHOR TRENCH DETAIL BETWEEN CELL NO. 1 & CELL NO. 2
N.T.S.



TYPICAL LEAKAGE DETECTION SUMP DRAIN PIPE DETAIL (CELL 1 AND PAC/ASH PONDS)
N.T.S.

NOTE:
1. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN–PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF–ROLLING CRITERIA FOR IN–PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

GEORGIA REGISTERED No. 17983 PROFESSIONAL 11-12-18 CLAUDIA M. MOELLER

GEORGIA REGISTERED NO. 27185 PROFESSIONAL 11/12/18 R. BRANT LANE ENGINEER

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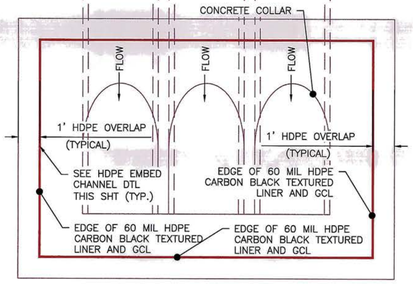
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS DETAILS

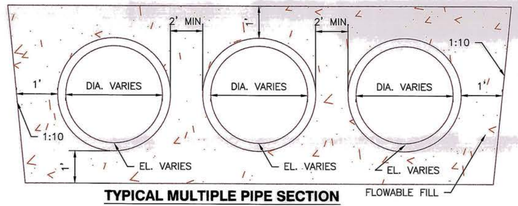
REVISION	DATE	DESCRIPTION	REA	EWO	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
6	11–01–2018	REVISED ANCHOR TRENCH DETAIL BETWEEN CELL 1 AND 2, INCREASED THE SOIL LINER THICKNESS TO 24 INCHES FOR CELL NO. 2, ADDED CUSHION UNDER SLURRY LINES, ADDED SOIL PROTECTION OVER GEOSYNTHETICS BETWEEN CELL NO. 1 AND CELL NO. 2, AND REVISED LEAKAGE DETECTION SUMP DETAIL.	SH–07880	3511DE	AMC	CMM	RBL				
5	12–03–10	A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."	SH–07880	3511DE	ECO	PMG	JAH				JBS
4	2–26–10	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."	SH–07880	3511DE	ECO	PMG	JAH				JBS
3	11–25–09	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."	SH–07880	3511DE	ECO	PMG	JAH				JBS
2	7–24–09	A. GENERAL REVISION PER EPD REVIEW "REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."	SH–07880	3511DE	JWM	PMG	JAH				CKT
1	6–01–09	A. GENERAL REVISION PER EPD REVIEW "REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."	SH–07880	3511DE	JAA	PMG	BDP				CKT
0	12–01–08	ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."	SH:07880	EWO:3511DE	JWM	PMG	BDP				CKT

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11019	1	FINAL	6

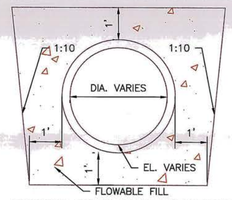
ANSI F: 40x28 Acad2004



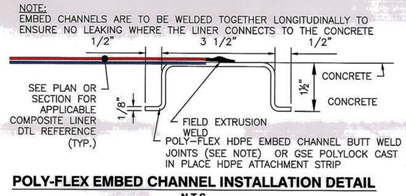
MULTIPLE PIPES HEADWALL TYPICAL PLAN
N.T.S.



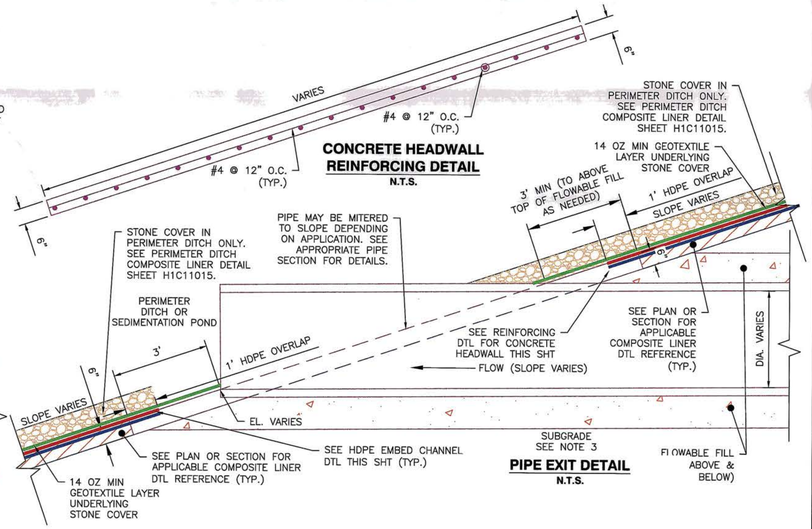
TYPICAL MULTIPLE PIPE SECTION
N.T.S.



TYPICAL SINGLE PIPE SECTION
N.T.S.

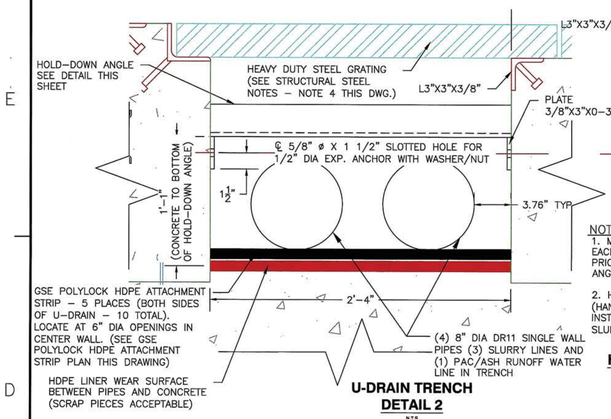


POLY-FLEX EMBED CHANNEL INSTALLATION DETAIL
N.T.S.



CONCRETE HEADWALL REINFORCING DETAIL
N.T.S.

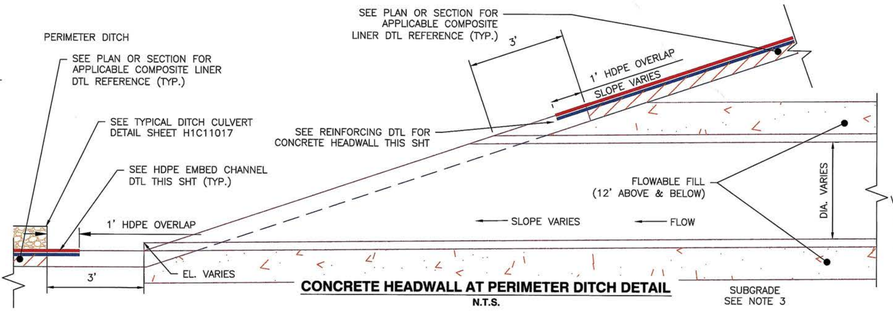
PIPE EXIT DETAIL
N.T.S.



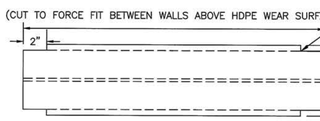
U-DRAIN TRENCH DETAIL 2
N.T.S.

NOTES:
1. MEASURE WIDTH OF U–DRAIN TRENCH AT EACH LOCATION OF HOLD–DOWN ANGLE PRIOR TO FABRICATION OF HOLD–DOWN ANGLE.
2. HOLD–DOWN ANGLES TO BE INSTALLED (HAND–TIGHTENED) AND THEN REMOVED AND INSTALLED AGAIN AFTER INSTALLATION OF 4 SLURRY/WATER LINES.

HOLD-DOWN ANGLE DETAIL
N.T.S

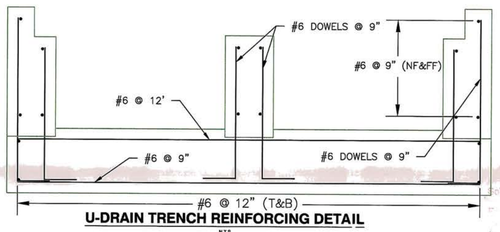


CONCRETE HEADWALL AT PERIMETER DITCH DETAIL
N.T.S.

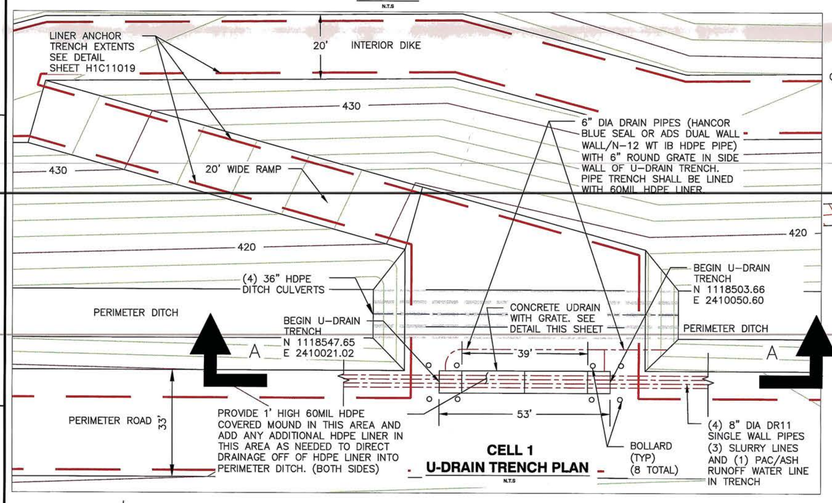


NOTE: THE PURPOSE OF THE GSE POLYLOCK HDPE ATTACHMENT STRIP IS TO FACILITATE DRAINAGE ACROSS THE U–DRAIN TRENCH.

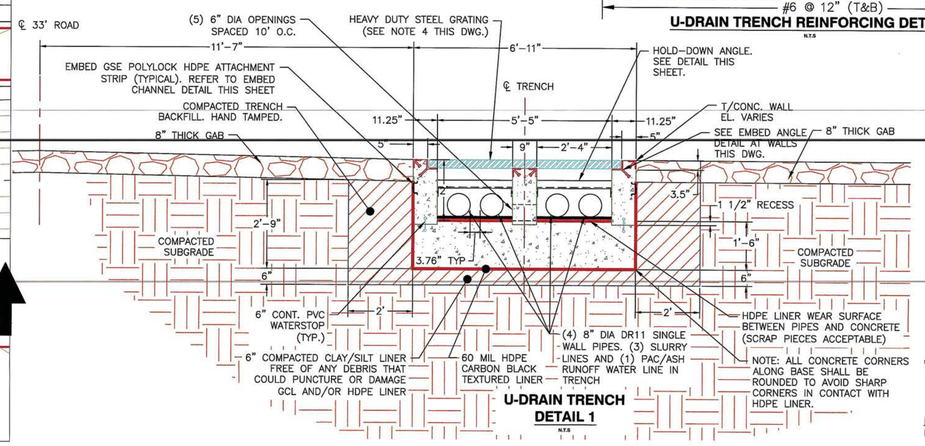
GSE POLYLOCK HDPE ATTACHMENT STRIP PLAN
N.T.S



U-DRAIN TRENCH REINFORCING DETAIL
N.T.S

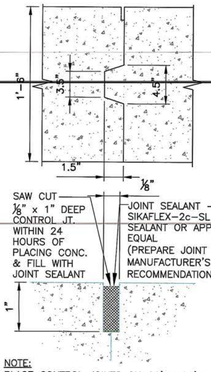


CELL 1 U-DRAIN TRENCH PLAN
N.T.S



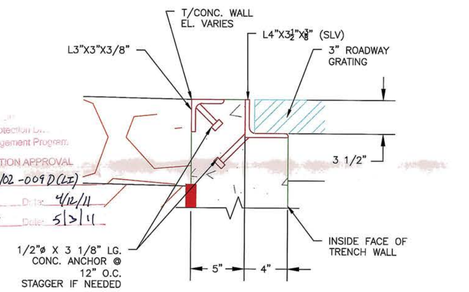
U-DRAIN TRENCH DETAIL 1
N.T.S

HOLD–DOWN ANGLE. SEE DETAIL THIS SHEET.
T/CONC. WALL EL. VARIES
SEE EMBED ANGLE DETAIL AT WALLS THIS DWG.
8" THICK GAB

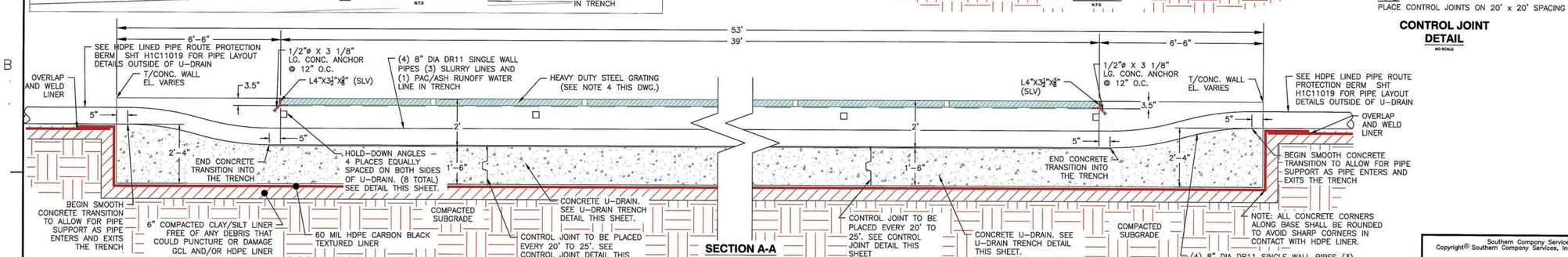


NOTE: PLACE CONTROL JOINTS ON 20' x 20' SPACING

CONTROL JOINT DETAIL
NO SCALE



U-DRAIN TRENCH EMBED ANGLE DETAIL @ GRATING & WALL EDGES
N.T.S



SECTION A-A
N.T.S

MINOR MODIFICATION APPROVAL
Solid Waste Permit No. 102-009D(LF)
Reviewed By: CBA Date: 4/12/11
Approved By: WMM Date: 5/3/11

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REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 5	12–03–10	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
REVISION 4	2–26–10	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
REVISION 3	11–25–09	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
REVISION 2	7–24–09	JWM	PMG	JAH				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
REVISION 1	6–01–09	JWM	PMG	BDP				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
REVISION 0	12–01–08	JWM	PMG	BDP				CKT
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH–07880	EWO:3511DE							

Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANEOUS DETAILS
SHEET 3

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CON'TD	REV
AS NOTED	010505	H1C11020	1	FINAL	5

ANSI F: 40x28 Acad2004

PLANT SCHERER COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
DESCRIPTION OF GENERAL CELL FILLING OPERATIONS

1. FILLING OPERATIONS BEGIN WITH THE DISCHARGE OF GYPSUM SLURRY INTO ONE SIDE OF THE DIVERSION BERM. THE SLURRY WILL BE DIRECTED ALONG ONE SIDE OF THE CELL'S PERIMETER DIKE SLOPE TOWARD THE FAR DOWNSTREAM END OF THE CELL (PHASE 1). THE GYPSUM WILL SETTLE OUT AS THE SLURRY FLOWS ALONG THE PERIMETER SLOPE. THIS SETTLING MAY BE FACILITATED BY PLACING CHECK BERMS OF SOIL OR GYPSUM ALONG THE FLOW PATH.
2. WHEN THE SETTLED GYPSUM HAS PROGRESSED IN DISTANCE ALONG THE PERIMETER DIKE, THE SLURRY DISCHARGE CAN BE DIRECTED TO THE OTHER SIDE OF THE DIVERSION BERMS TO BEGIN THE FILLING ALONG THE OPPOSITE SIDE OF THE CELL (PHASE 2). THIS WILL ALLOW THE EXCAVATION OF THE RIM DITCH ALONG THE PREVIOUS PHASE 1 SIDE.
3. THE PHASE 1 RIM DITCH WILL BE INITIALLY EXCAVATED BY A TRACKED EXCAVATOR LOCATED ON THE PERIMETER BERM. AS THE RIM DITCH IS EXCAVATED, THE GYPSUM WILL BE CAST AND STACKED ON THE NEAR SIDE AS WELL AS THE FAR SIDE OF THE RIM DITCH AS THE EXCAVATOR TRAVELS ALONG THE DIKE. THE SLOPE OF THE INVERT OF THE RIM DITCH SHOULD BE KEPT APPROXIMATELY 0.5% TO FACILITATE THE SETTLING OF GYPSUM.
4. THE RIM DITCH MAY BE BLOCKED/DAMMED AT ANY POINT SO THAT THE FUTURE GYPSUM SLURRY MAY BE DIRECTED TOWARD THE INTERIOR OF THE CELLS IN LATERAL DITCHES.
5. ONCE THE RIM DITCH IS EXCAVATED SUCH THAT FLOW WILL BE IN THE DESIRED DIRECTION, THE SLURRY DISCHARGE MAY BE DIRECTED INTO THE PHASE 1 RIM DITCH OR INTO A NEW PHASE 3 AREA WHERE SETTLED GYPSUM IS DESIRED.
6. THE PHASE 2 RIM DITCH IS EXCAVATED IN THE SECOND AREA OF SETTLED GYPSUM.
7. THE CAST GYPSUM EXCAVATED FROM THE RIM DITCHES WILL BE SPREAD BY TRACKED DOZERS, ALONG THE DIRECTION OF THE RIM DITCHES AND ON BOTH SIDES, TO PROVIDE WORKING PADS FOR EXCAVATION OF FUTURE RIM DITCHES AS WELL AS SECTIONS FOR RAISING THE GYPSUM STACK.
8. THIS METHOD OF ALLOWING GYPSUM SETTLEMENT AND RIM AND LATERAL DITCH EXCAVATION IN PHASES WILL BE UTILIZED FOR FILLING TO THE FINAL STACK ELEVATIONS.
9. AS FILLING OF THE FIRST LIFT PROGRESSES, SLURRY WATER AND STORM WATER ARE DIRECTED TO THE LOW END OF THE CELL TOWARDS THE RISER AND DISCHARGE PIPE.
10. AS THE RIM DITCHES ARE EXCAVATED, A MINIMUM OF 3 FEET OF GYPSUM SHALL BE LEFT IN PLACE ABOVE THE DRAINAGE SYSTEM TO PROVIDE A PROTECTIVE LAYER.
11. THE RISER AND DISCHARGE ASSEMBLY MAY BE USED AS LONG AS PRACTICAL TO PROVIDE DRAINAGE FROM WITHIN THE CELL TO THE SEDIMENTATION BASIN. HOWEVER, IT IS ANTICIPATED THAT THE USE OF THIS ASSEMBLY WILL BE TERMINATED AFTER FILLING OF THE FIRST 20 FT. LIFT ABOVE THE PERIMETER BERM. AT THAT TIME THE SIPHON DISCHARGE SYSTEM WILL BE INSTALLED FOR USE AND THE RISER/DISCHARGE ASSEMBLY WILL BE ABANDONED IN PLACE.
12. THE SIPHON SPILLWAY, DISCHARGING TO THE PERIMETER DITCH, WILL BE UTILIZED FOR CONTROLLING THE LEVEL OF SLURRY AND STORM WATER DURING FILLING AND RAISING OF EACH 20 FT. LIFT. A SECOND SIPHON WILL BE INSTALLED AND BE OPERABLE FOR THE SUBSEQUENT 20 FT. LIFT BEFORE MOVING THE PREVIOUS SIPHON.
13. FOR EACH SUBSEQUENT LEVEL OF GYPSUM SLUICING AND GYPSUM DIKE AND RIM DITCH CONSTRUCTION, THE SAME CONSTRUCTION TECHNIQUES AND OPERATIONS WILL APPLY. GYPSUM SLUICE LINES WILL BE PROGRESSIVELY EXTENDED UP THE GYPSUM SLOPES TO THE NEXT LEVEL AS FILLING PROGRESSES.
14. GYPSUM SLOPES WILL BE MAINTAINED UNTIL THE FINAL COVER SYSTEM IS PLACED.
15. THE CELLS WILL BE CLOSED IN ACCORDANCE WITH THE CLOSURE PLAN.

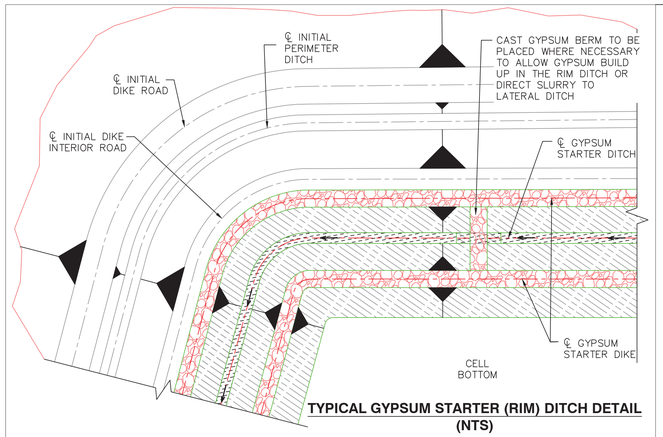
ABANDONMENT PROCEDURES
RISER STRUCTURE AND DECANT PIPE ASSEMBLY
THE CELL 1 AND CELL 2 RISER STRUCTURE AND DECANT PIPE ASSEMBLE WILL BE ABANDONED IN PLACE ONCE THE RESPECTIVE STRUCTURE HAS REACHED ITS INTENDED SERVICE LIFE, TYPICALLY, AS THE DEPOSITED GYPSUM REACHES OR APPROACHES THE UPPER ELEVATIONS DEFINED BY THE PERIMETER BERM OR ELEVATION OF THE RISER STRUCTURE.

ABANDONMENT OF THE CONCRETE RISER STRUCTURE AND HDPE DECANT PIPE ASSEMBLY WILL BE ACCOMPLISHED BY COMPLETELY FILLING THE DECANT PIPE AND THE LOWER PORTION OF THE RISER STRUCTURE WITH A SELF-LEVELING, LOW STRENGTH, NON-SHRINK, FLOWABLE FILL, GROUT, OR LIGHTWEIGHT CELLULAR CONCRETE IN GENERAL ACCORDANCE WITH THE FOLLOWING PROCEDURES.

1. THE DECANT PIPE UPSTREAM OPENING IN THE RISER STRUCTURE SHALL BE BLOCKED/SEALED WITH A STEEL BULKHEAD. A GROUT INJECTION PORT SHALL BE PROVIDED IN THE TOP PORTION OF THE BULKHEAD, EXTENDING INTO THE HDPE DECANT PIPE. THE UPSTREAM END OF THE INJECTION PORT SHALL BE AFFIXED WITH A 90 ° ELBOW AND PIPE EXTENSION TO RECEIVE THE VERTICAL GROUT PIPE FROM INSIDE THE RISER STRUCTURE. THE VERTICAL PIPE FROM THE INJECTION PORT SHALL EXTEND TO ABOVE THE LEVEL OF CONCRETE POURED TO PLUG THE BOTTOM OF THE RISER (SEE #4 BELOW).
2. A VERTICAL GROUT PIPE SHALL BE THREADED ONTO THE INJECTION PORT EXTENSION AFFIXED TO THE STEEL BULKHEAD AND EXTEND UPWARD TO THE TOP OF THE RISER STRUCTURE.
3. THE VERTICAL GROUT PIPE SHALL BE EQUIPPED WITH A BLEED VALVE AND PRESSURE GAGE ASSEMBLY BELOW THE GROUT NOZZLE ATTACHMENT POINT.
4. THE BOTTOM OF THE RISER STRUCTURE SHALL BE FILLED WITH CONCRETE TO A HEIGHT OF 1.5 TIMES THE DIAMETER OF THE DECANT PIPE.
5. THE DOWNSTREAM OUTLET OF THE DECANT PIPE SHALL BE SEALED WITH A BULKHEAD OR CONCRETE PLUG.
6. THE DECANT PIPE SHALL BE FILLED WITH A FLOWABLE, SELF-LEVELING GROUT OR CONCRETE.
7. THE GROUT OR FLOWABLE CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ABANDONMENT.
8. THE REMAINING VERTICAL PORTION OF THE RISER STRUCTURE MAY EITHER BE FILLED WITH CONCRETE OR BACKFILLED WITH GYPSUM FROM THE DISPOSAL CELL.

EMERGENCY DISCHARGE POND OPERATION & MAINTENANCE
1. THE EMERGENCY DISCHARGE POND WILL BE EQUIPPED WITH A STAFF GAGE FOR MONITORING THE POND WATER ELEVATION. A FLOATING SUMP PUMP IS PROVIDED TO MAINTAIN THE WATER LEVEL WITHIN THE POND BELOW ELEV. 391. PROVISIONS ARE PROVIDED IN THE DESIGN FOR THE LIQUIDS PUMPED FROM THE EMERGENCY DISCHARGE POND TO DISCHARGE INTO THE SOUTH SEDIMENTATION BASIN.
2. THE WATER ELEVATION IN THE EMERGENCY DISCHARGE POND SHALL BE MONITORED ON A WEEKLY BASIS AND THE PUMP ENERGIZED AS REQUIRED TO MAINTAIN A NORMAL POND ELEVATION OF 388.
3. AN ACCESS RAMP INTO THE POND SHALL BE PROVIDED AND MAINTAINED FOR INGRESS AND EGRESS DURING CLEAN-OUT OPERATIONS. THE RAMP MAY BE CONSTRUCTED OF DEPOSITED OR HAULED GYPSUM, SOIL, OR A MIX OF BOTH MATERIALS. SPECIAL PRECAUTIONS SHALL BE TAKEN DURING CONSTRUCTION OF THE RAMP TO ENSURE THE INTEGRITY OF THE LINING SYSTEM.
4. A LIMIT OF EXCAVATION SHALL BE ESTABLISHED AND MONITORED DURING CLEAN-OUT OPERATIONS TO ENSURE THE LINER SYSTEM IS NOT DAMAGED.
5. EXCAVATED GYPSUM SHALL BE TRANSPORTED AND PLACED IN THE ACTIVE GYPSUM DISPOSAL CELL.

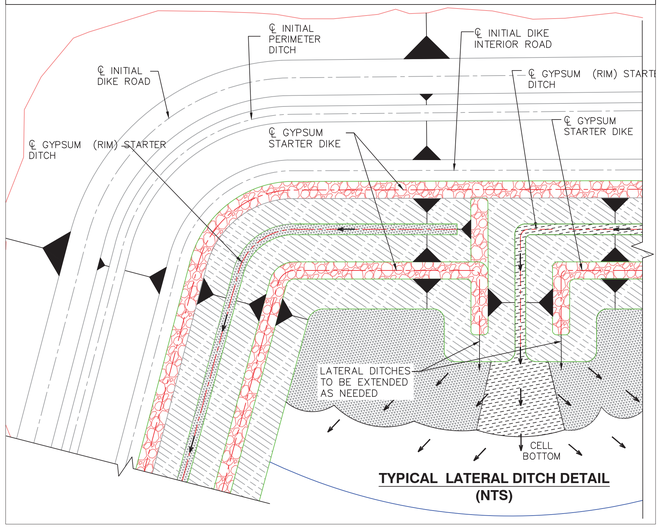
MATERIAL RECLAMATION FOR MARKET
1. ANY DRYING AND TEMPORARY STORAGE OF GYPSUM FOR POSSIBLE REUSE WILL BE ACCOMPLISHED WITHIN THE FOOTPRINT OF THE CELL. AN AREA, OR AREAS, CAN BE PROVIDED WITHIN THE CELL BY DIRECTING SLURRY AWAY FROM THE STORAGE/DRYING AREA SUCH THAT THE AREA AND STOCKPILES CAN BE WORKED APPROPRIATELY.



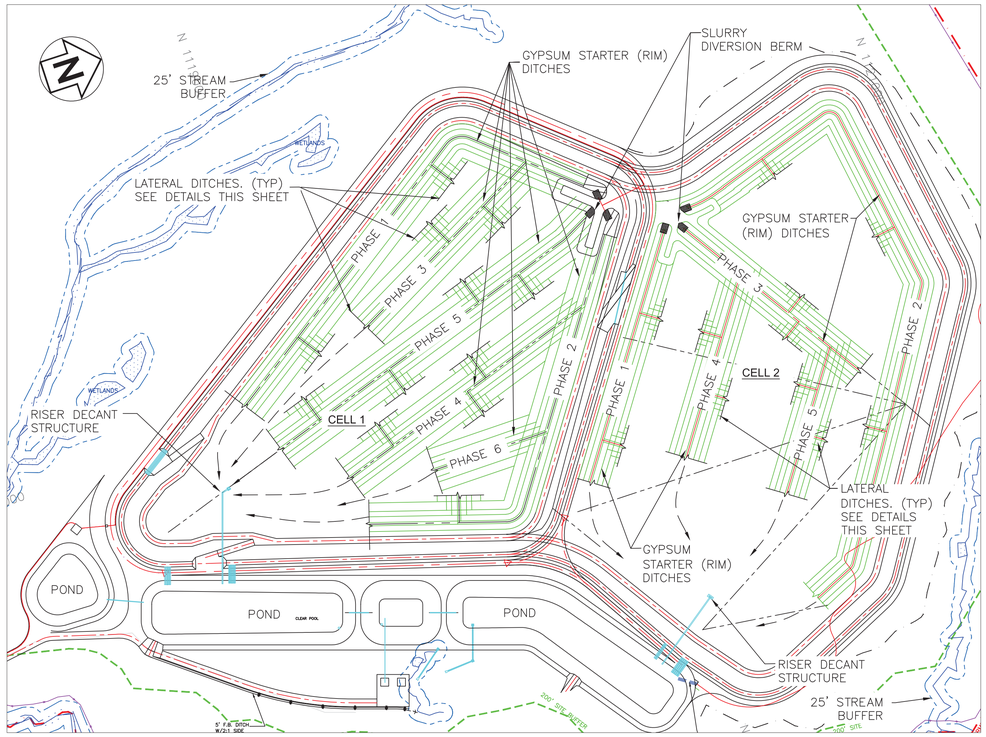
TYPICAL GYPSUM STARTER (RIM) DITCH DETAIL
(NTS)

LEGEND:

- CAST GYPSUM DIKE
- CAST GYPSUM DIKE SLOPES (3:1)
- SLUICED GYPSUM
- SETTLED GYPSUM
- WATER PONDING



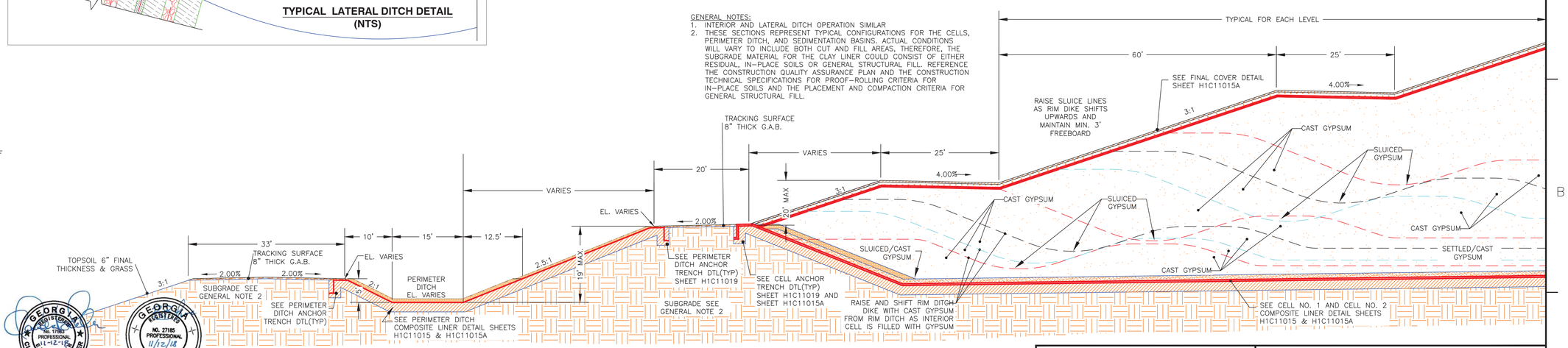
TYPICAL LATERAL DITCH DETAIL
(NTS)



GYPSUM STARTER (RIM) DITCH & LATERAL DITCH
TYPICAL PLAN
NTS

NOTE:
ACTUAL RIM STARTER DITCH AND LATERAL DITCH ARRANGEMENT MAY VARY BASED ON OPERATION

GENERAL NOTES:
1. INTERIOR AND LATERAL DITCH OPERATION SIMILAR
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.



TYPICAL GYPSUM STACK DEVELOPMENT
(NTS)

GEORGIA REGISTERED No. 17383 PROFESSIONAL ENGINEER CLAUDIA M. MCHELLER 11-12-18

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 11/12/18

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
FILLING AND OPERATION PLAN

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
5	11-01-2018	AMC	CMM	RBL				

CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]
REMOVED CELL NO. 3 FROM THE GYPSUM STARTER (RIM) DITCH & LATERAL DITCH TYPICAL PLAN. MOVED INSPECTION AND MONITORING NOTES TO OPERATION PLAN.

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
4	7-31-14	CRU	PMG	RCB				ELM

ISSUED FOR MINOR MODIFICATION
MWO: GPC381513

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
3	12-03-10	ECO	PMG	JAH				JBS

A. GENERAL REVISION FOR MINOR MODIFICATION
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."
REA: SH-0780 EWO: 3511DE

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
2	2-26-10	ECO	PMG	JAH				JBS

GENERAL REVISION FOR PERMIT MODIFICATION
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."
REA: SH-0780 EWO: 3511DE

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
1	7-24-09	JAA	PMG	JAH				CKT

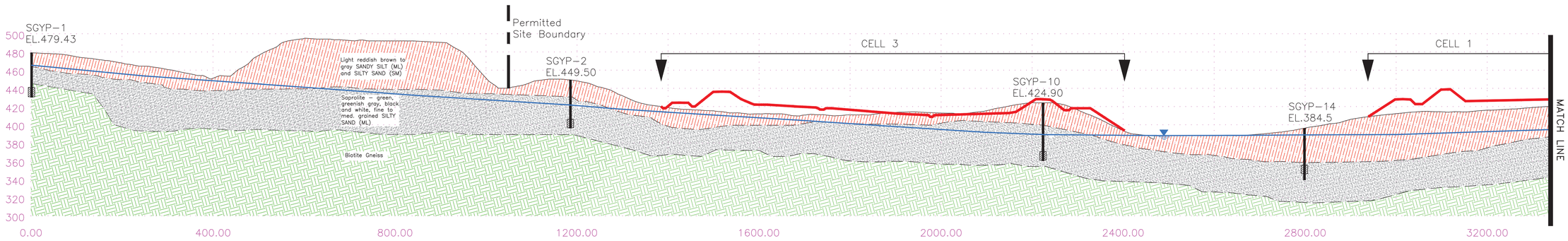
ISSUED FOR PERMIT
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."
REA: SH-0780 EWO: 3511DE

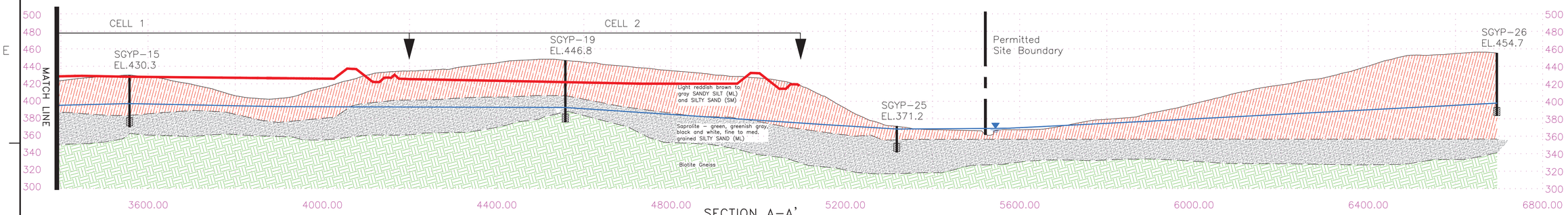
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
0	6-01-09	JAA	PMG	BDP				CKT

ISSUED FOR PERMIT
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."
REA: SH-0780 EWO: 3511DE

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	**H1C11021**	1	FINAL	5

ANSI F: 40x28 Acad2008

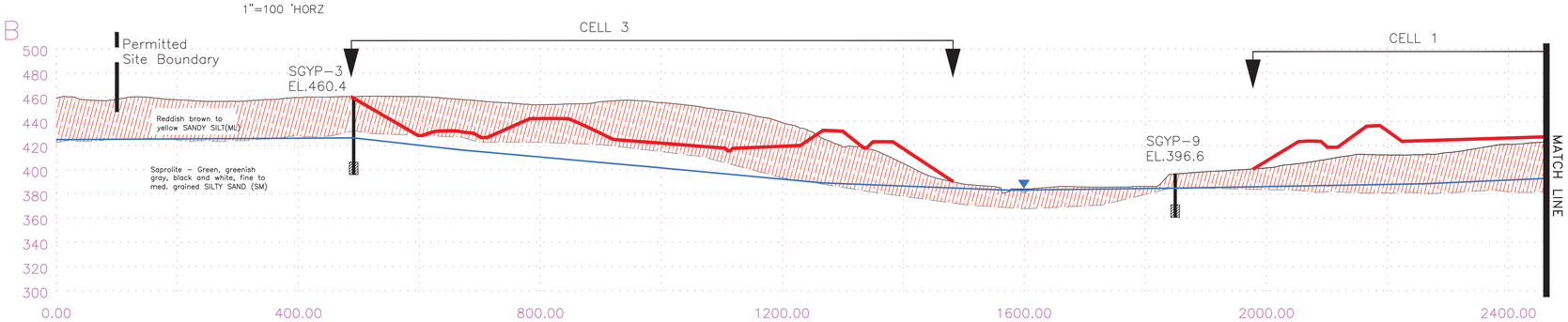


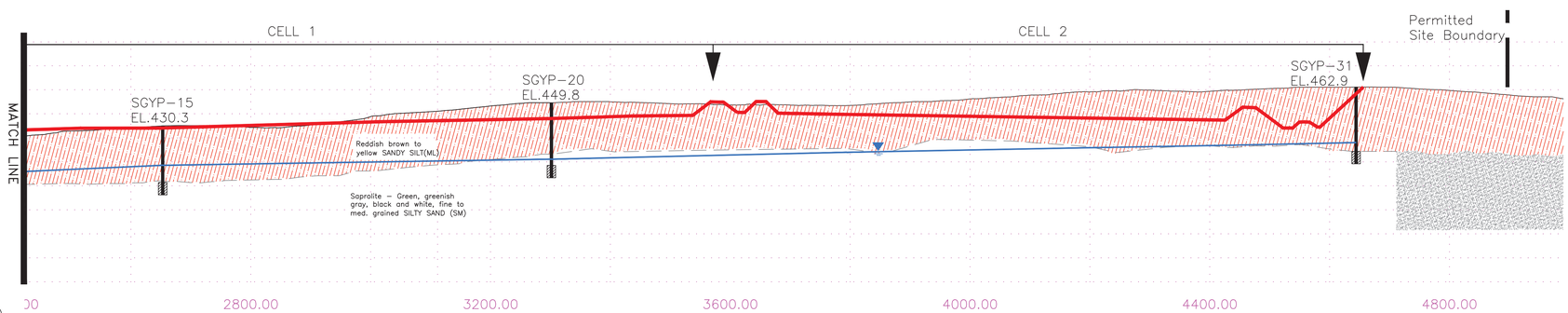


SECTION A–A'

SCALE:
1"=50' VERT
1"=100 'HORZ

B–B





SECTION B–B'

SCALE:
1"=50' VERT
1"=100 'HORZ

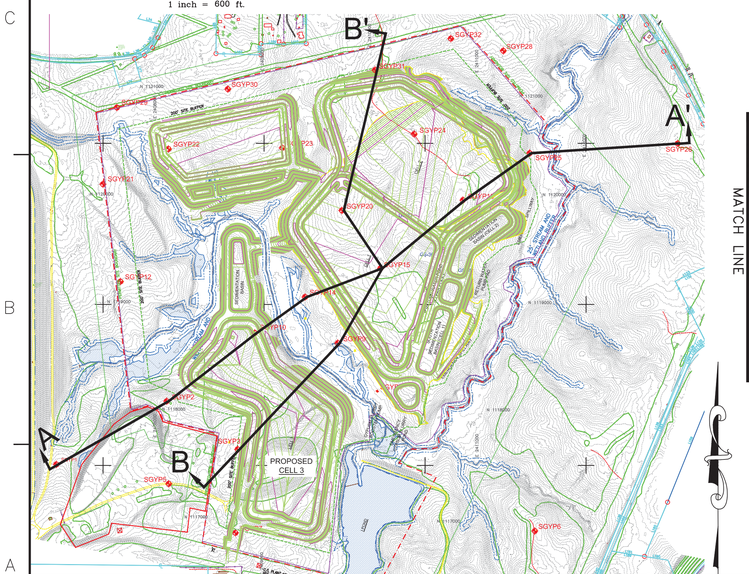
LEGEND:

- HIGH WATER ELEVATIONS
- BASE GRADE (TOP OF SOIL LINER) OF WASTE DISPOSAL CELLS

GRAPHIC SCALE

600 0 300 600 1200 1800

(IN FEET)
1 inch = 600 ft.



NOTE: PAC/ASH GEOLOGIC SECTIONS SHOWN ON H1C11054

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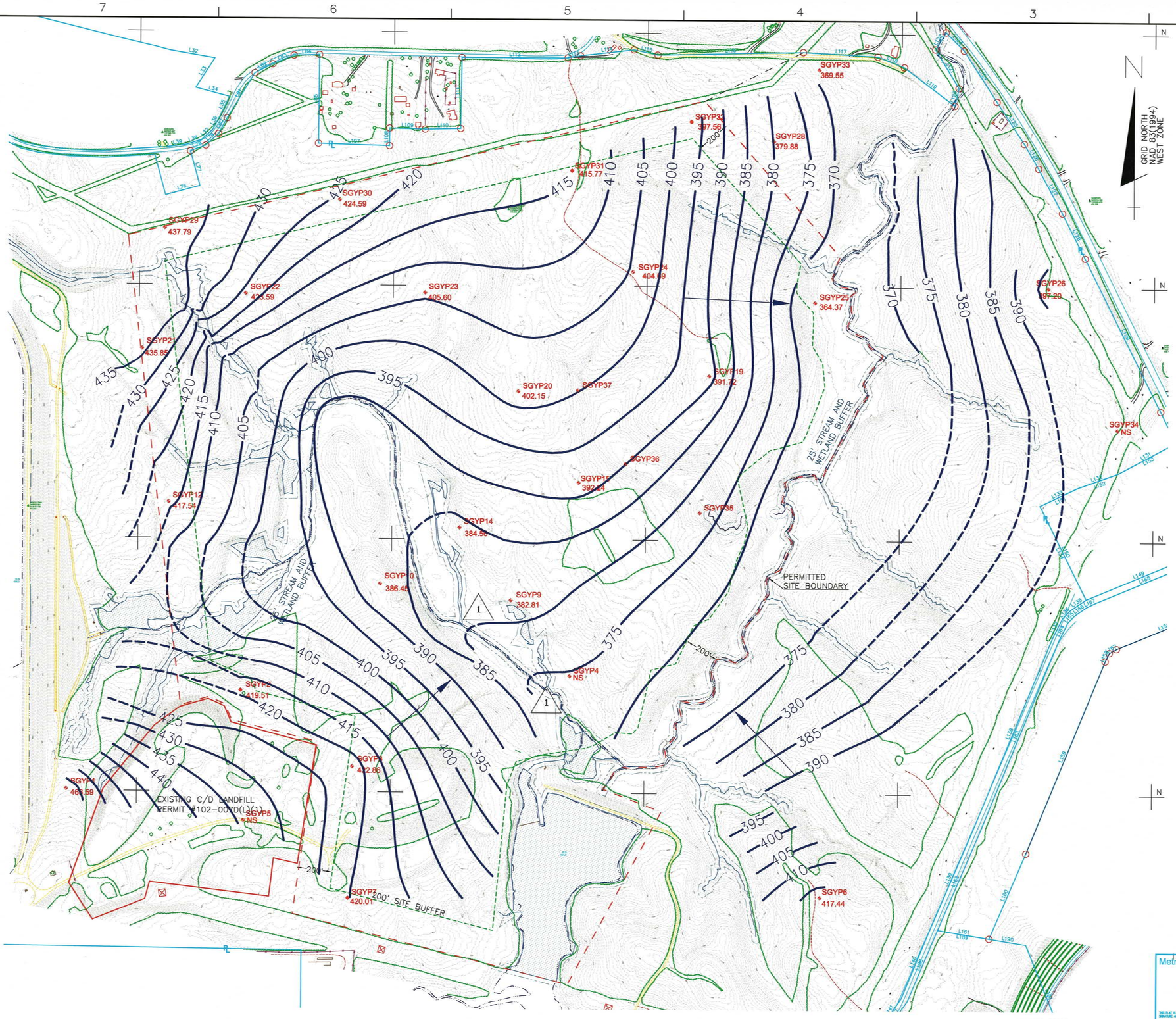
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
GEOLOGIC SECTIONS A–A' AND B–B'

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 3	DATE 11–01–2018	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]		AMC	CMM	RBL				
REVISED CELL NO. 3 BASE GRADES IN CROSS–SECTIONS.								
REVISION 2	DATE 11/25/2009	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ISSUED FOR PERMIT MODIFICATION		JJB	RJT	JCR				
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."								
REA: SH07860	EWO: 3201DE							
REVISION 1	DATE 07/24/2009	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ADJUSTED HIGH WATER LINE AND ADDED CELL LAYOUT LOCATION & CERT. STATEMENT		ASF	RJT	JCR				
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."								
REA: SH07880	EWO: 3511DE							
REVISION 0	DATE 12/01/2008	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ISSUED FOR PERMIT		ASF	RJT	JCR				
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."								
REA: SH07880	EWO: 3511DE							

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	H1C11026	1	FINAL	3

ANSI F: 40x28 Acad2008



LOCATION MAP
SCALE AS SHOWN

MONROE COUNTY
GEORGIA

102-009 D(I)
4-9-2010
4/22/10

LEGEND:

- LANDFILL BOUNDARY
- PROPERTY LINE
- SITE BOUNDARY
- BUFFER BOUNDARY
- 25' WETLAND & STREAM BUFFER
- GROUNDWATER CONTOUR
- FLOW ARROW
- STREAM OR CREEK
- EXISTING CONTOURS
- WETLAND
- PIEZOMETER LOCATION

RHONDA J. TINSLEY — GEORGIA REGISTERED PROFESSIONAL GEOLOGIST — No. 001671 — 3/30/2010

GEOREL REGISTERED — No. 15687 — PROFESSIONAL ENGINEER — 3/30/10

"I, Rhonda J. Tinsley, a professional geologist registered to practice in the State of Georgia (License Number 001671), certify that the design of the groundwater monitoring system was developed in compliance with the rules of Solid Waste Management, Chapter 391-3-4-.14."

Metro Engineering & Surveying Co., Inc.
Engineers • Surveyors • Photogrammetrist
Clayton / Tara Airport
186 Selfridge Road • Hampton, GA 30228
Phone: 770-707-0777
Fax: 770-707-0755
www.metro-engineering.com
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"QUALITY SERVICES SINCE 1987"

GRAPHIC SCALE
(IN FEET)
1 inch = 250 ft.

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REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 2 — ISSUED FOR PERMIT MODIFICATION. "REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671." REA: SH07860 EWO: 3201DE	11/25/2009	JJB	RJT	JCR				
REVISION 1 — CONTINUED WATER CONTOUR ELEVATIONS 380 AND 375 OVER STREAM BED. "REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671." REA: SH07880 EWO: 3511DE	03/28/2009	ASF	RJT	JCR				
REVISION 0 — ISSUED FOR PERMIT. "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671." REA: SH07880 EWO: 3511DE	12/01/2008	ASF	RJT	JCR				

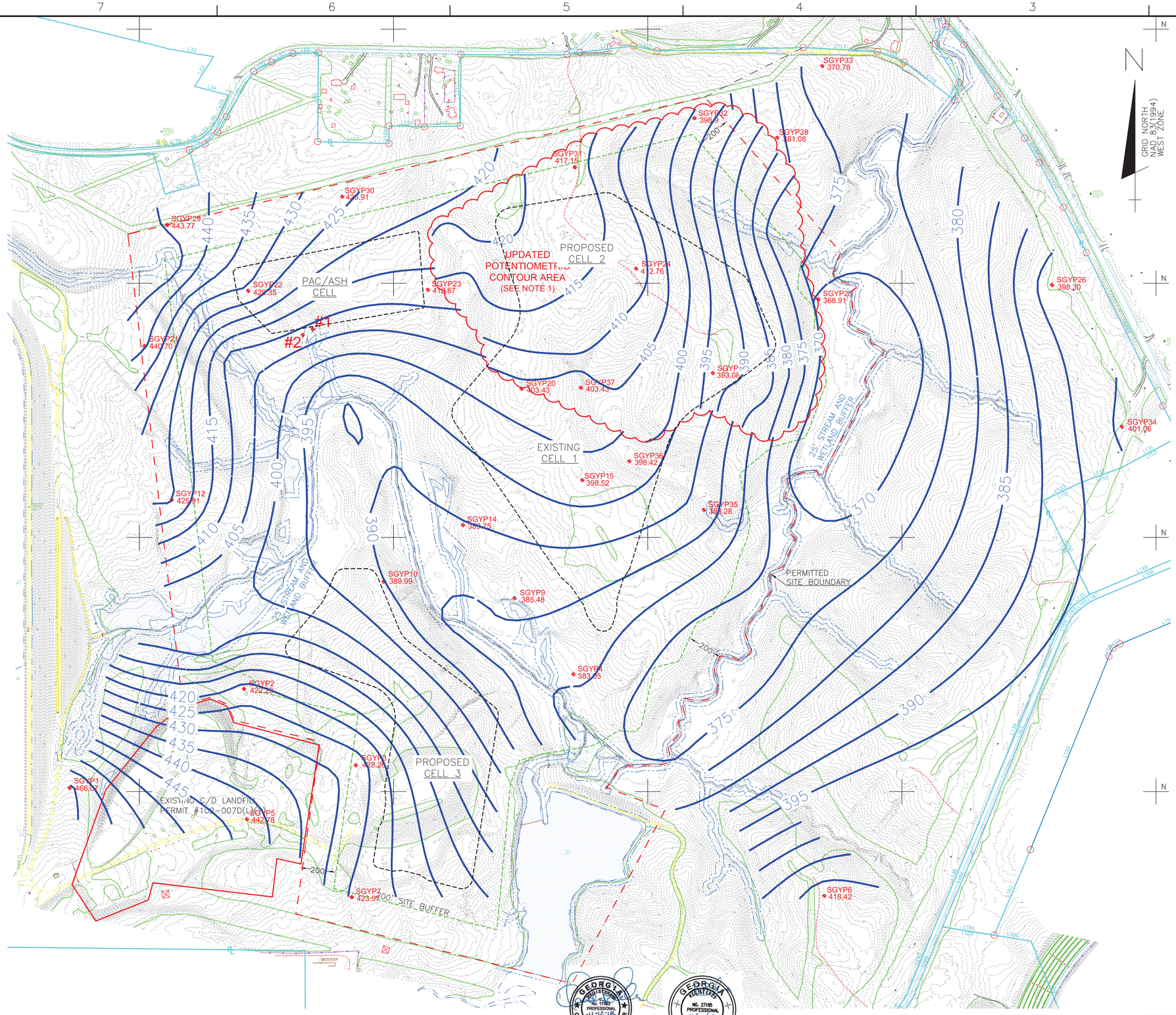
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
POTENTIOMETRIC SURFACE MAP 10/25/2007

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1" = 250'	010505	H1C11027	1	FINAL	2

Drawing name: T:\ESEE MAJOR PROJECTS\PROJECTS\SCHERER\2009\ES1789 PAC D & O Revisions\dwg\H1C11027REV2.dwg Feb 26, 2010 – 4:46pm

ANSI F: 40x28



LEGEND:

- LANDFILL BOUNDARY
- PROPERTY LINE
- SITE BOUNDARY
- BUFFER BOUNDARY
- 25' WETLAND & STREAM BUFFER
- LIMITS OF WASTE
- GROUNDWATER CONTOUR
- FLOW ARROW
- STREAM OR CREEK
- EXISTING CONTOURS
- WETLAND
- PIEZOMETER LOCATION
- REVISED GROUNDWATER CONTOUR

NOTE:

1. POTENTIOMETRIC CONTOURS WERE TAKEN FROM A DRAWING TITLED "UPDATED SEASONAL HIGH POTENTIOMETRIC SURFACE ELEVATION CONTOUR MAP – PROPOSED CELL 2" PREPARED BY BUNNELL-LAMMONS ENGINEERING, INC. DATED 07-05-2017.

GRAPHIC SCALE
250 125 0 125 250 375 500 625 750
(IN FEET)
1 inch = 250 ft.

GEORGIA REGISTERED No. 17861 PROFESSIONAL ENGINEER CLAUDIA M. MOELLER 11-12-18

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER P. BRANT LANE 11/12/18

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

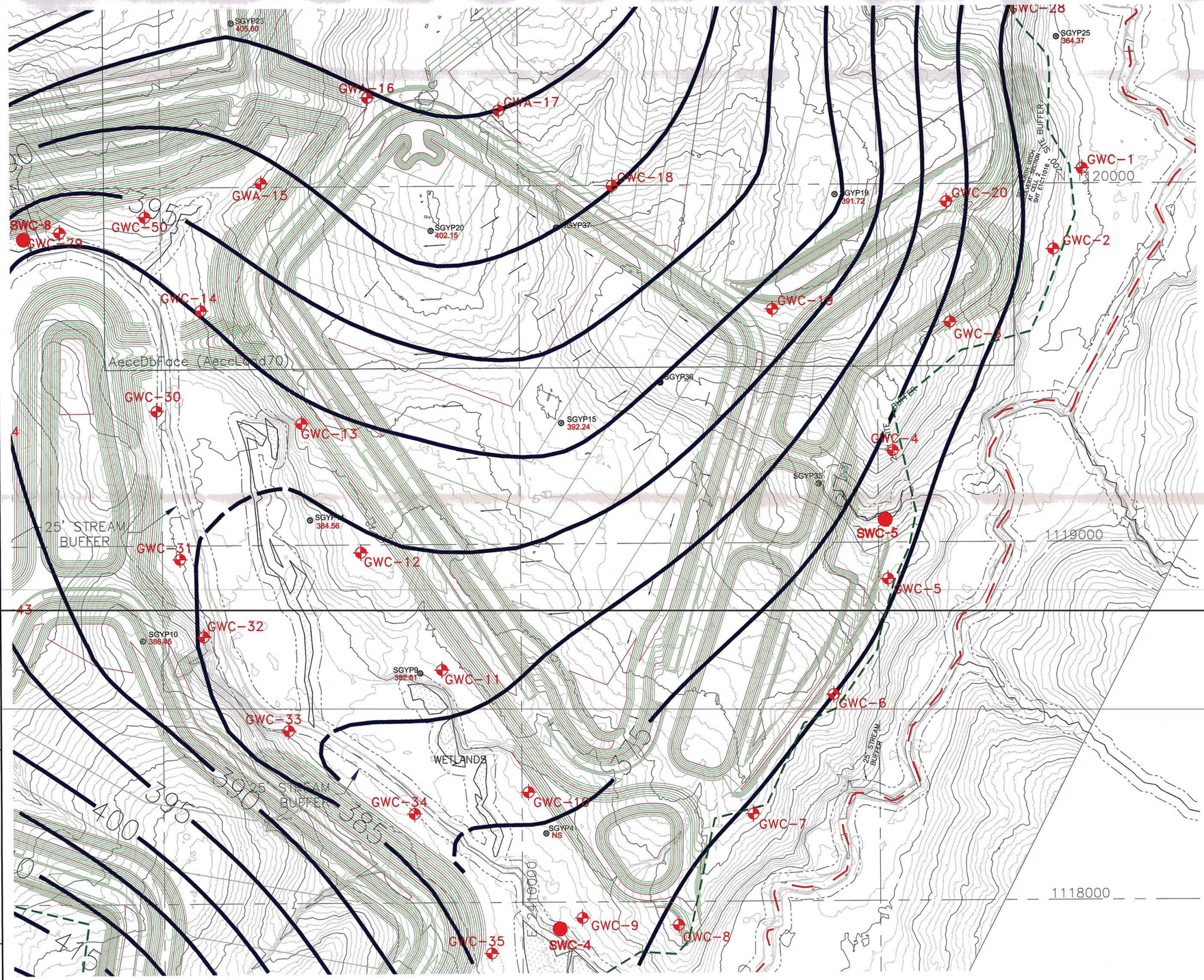
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
COMPOSITE SEASONAL HIGH GROUNDWATER MAP

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 3	DATE 11-01-2018	AMC	CMM	RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								
UPDATED SEASONAL HIGH POTENTIOMETRIC SURFACE ELEVATION CONTOUR MAP IN PROPOSED CELL 2								
REVISION 2	DATE 11/25/2009	JJB	RJT	JCR				
ISSUED FOR PERMIT MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."								
REA: SH07860	EWO: 3201DE							
REVISION 1	DATE 06/10/2009	ASF	RJT	JCR				
REVISED HIGH WATER CONTOURS USING APRIL 9, 2009 READINGS.								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."								
REA: SH07880	EWO: 3511DE							
REVISION 0	DATE 12/01/2008	ASF	RJT	JCR				
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."								
REA: SH07880	EWO: 3511DE							

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1" = 250'	10505	H1C11028	1	FINAL	3

Drawing name: B:\P – GPC – Scherer\Projects\CCR Major Mod\Revised Drawings\H1C11028_R3.dwg Nov 07, 2018 – 11:13am

ANSI F: 40x28 Acad2008



GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

NOTE:
REFER TO DRAWING H1C11034 FOR MONITORING WELL SIGNAGE REQUIREMENTS.

LEGEND:

- POTENTIOMETRIC SURFACE 10/25/2007
- SGYP4 — EXISTING WELLS TO BE ABANDONED
- GWA-13 — UPGRADIENT WELLS
- GWC-1 — COMPLIANCE WELLS
- SWC-4 — DOWNGRADIENT SURFACE WATER MONITORING POINT
- 375 — GROUNDWATER CONTOUR

MINOR MODIFICATION APPROVAL
Waste Permit No. 102-009D(LI)
4-14-2011
5/3/11

RHONDA J. TINSLEY — No. 001671 — GEORGIA REGISTERED PROFESSIONAL GEOLOGIST — 5/3/10

GEORGIA — No. 13907 — REGISTERED PROFESSIONAL ENGINEER — 5/3/10

"I, Rhonda J. Tinsley, a professional geologist registered to practice in the State of Georgia (License Number 001671), certify that the design of the groundwater monitoring system was developed in compliance with the Rules of Solid Waste Management, Chapter 391-3-4-.14."

"REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."

"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."

"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."

"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."

"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION 5	DATE 08/24/2010	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
RELOCATED WELLS USING SURVEY DATA. GWC29, GWC50.		ASF	RJT	JCR				
REA: SH07860	EWO: 3201DE							

REVISION 4	DATE 02/26/2010	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
GENERAL REVISION FOR PERMIT MODIFICATION AS BUILT SURVEYED LOCATIONS FOR CELL 1 WELLS		ASF	RJT	JCR				
REA: SH07860	EWO: 3201DE							

REVISION 3	DATE 11/25/2009	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ISSUED FOR PERMIT MODIFICATION AS BUILT SURVEYED LOCATIONS FOR CELL 1 WELLS		ASF	RJT	JCR				
REA: SH07860	EWO: 3201DE							

REVISION 2	DATE 07/24/2009	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. UPDATED CELL LAYOUT B. REMOVED PIPES AND DRAINAGE REFERENCES		ASF	RJT	JCR				
REA: SH07880	EWO: 3511DE							

REVISION 1	DATE 3/26/2009	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. CHANGED POTENTIONMETRIC SURFACE TO REFLECT OCTOBER 25, 2007 READINGS. B. ADDED IN 3 NEW WELLS, RELOCATED GWC-1 THRU GWC-6 AND RENUMBERED ALL WELLS.		ASF	RJT	JCR				
REA: SH07880	EWO: 3511DE							

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REVISION 0	DATE 12/01/2008	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."		ASF	RJT	JCR				
REA: SH07880	EWO: 3511DE							

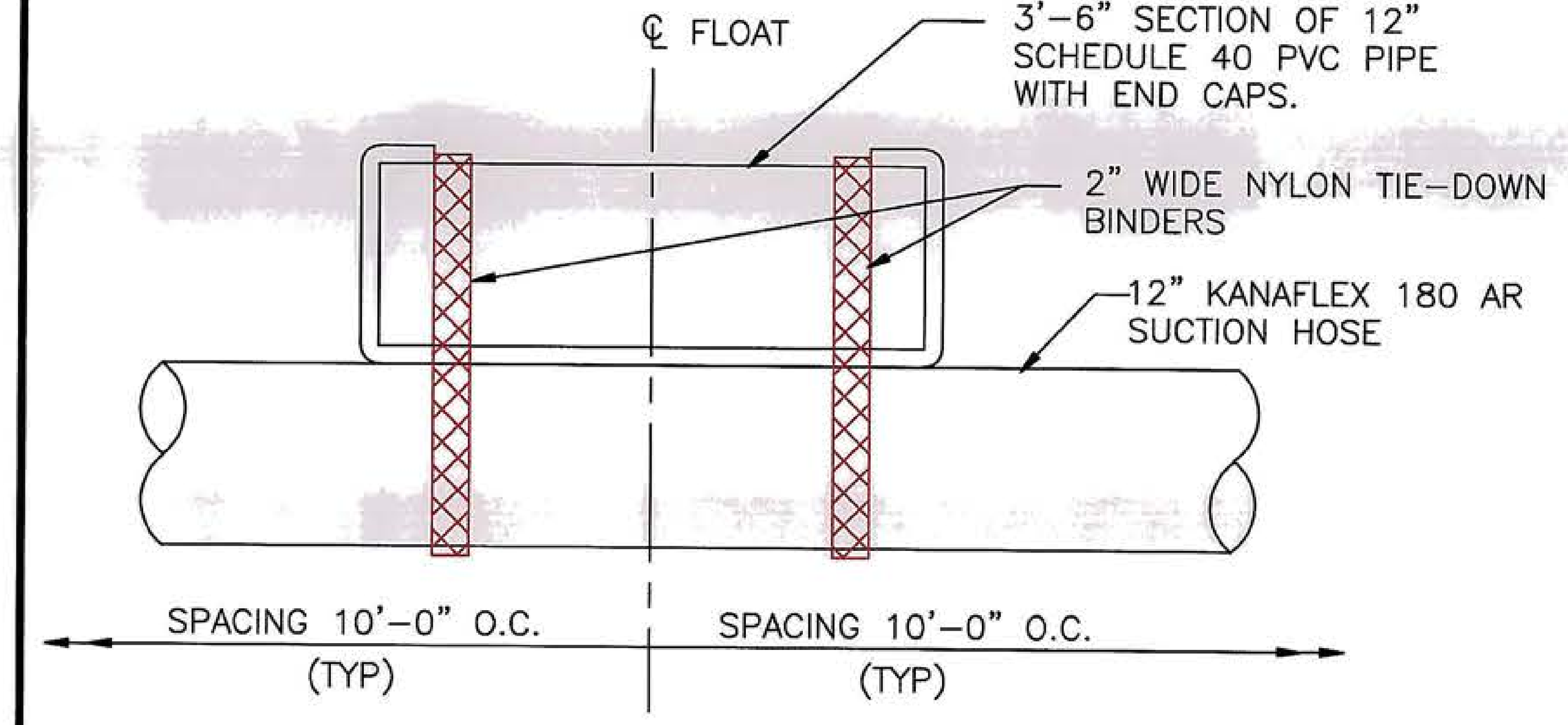
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO.1 & SEDIMENTATION PONDS
MONITORING WELL & SURFACE WATER
MONITORING LOCATIONS

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	H1C11029	1	FINAL	5

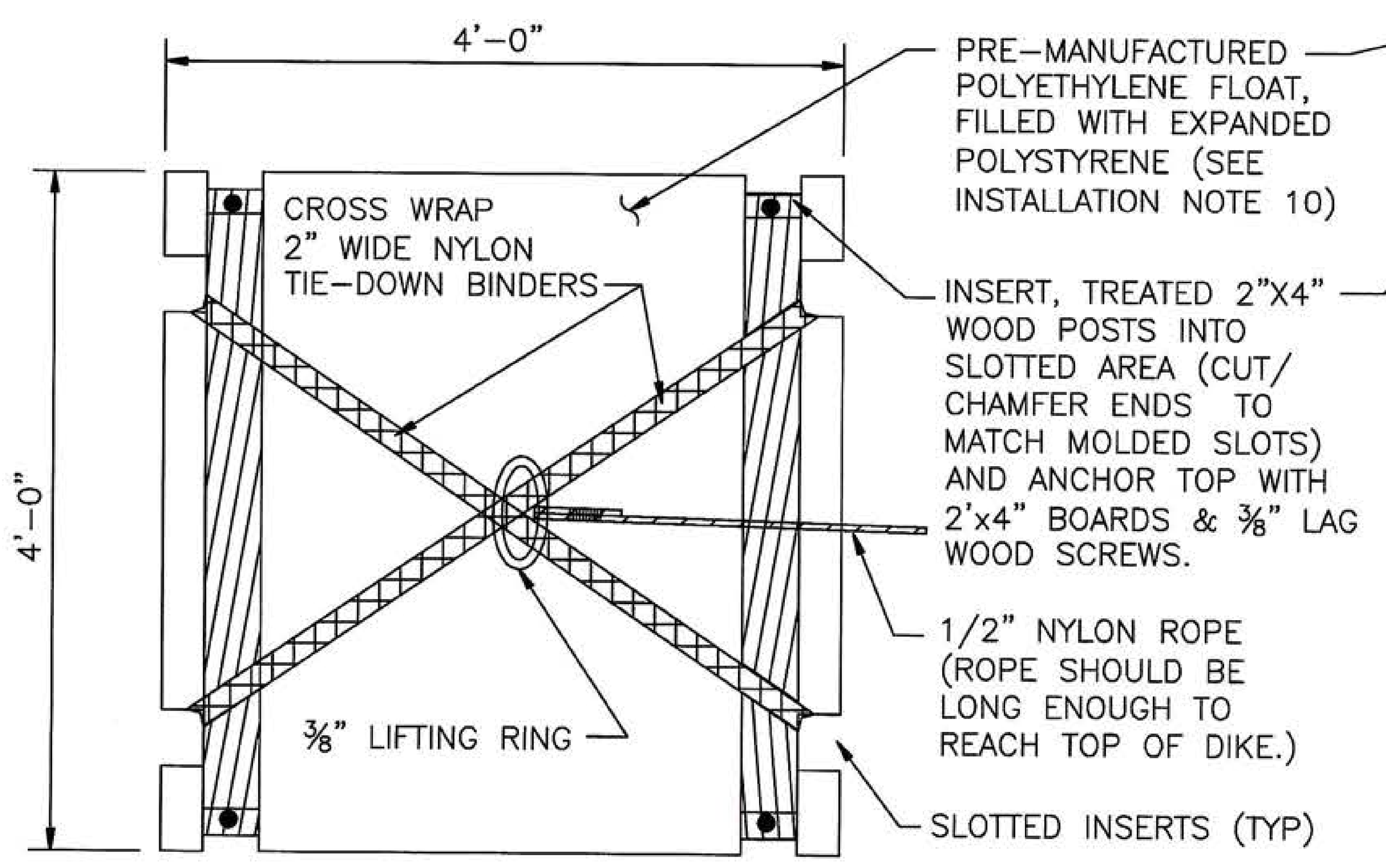
Drawing name: I:\ESEE MAJOR PROJECTS\PROJECTS\SCHERER\2009\ES1789 PAC D & O Revisions\dwg\H1C11029REV5.dwg Dec 03, 2010 - 11:03am

ANSI F: 40x28 Acad2008

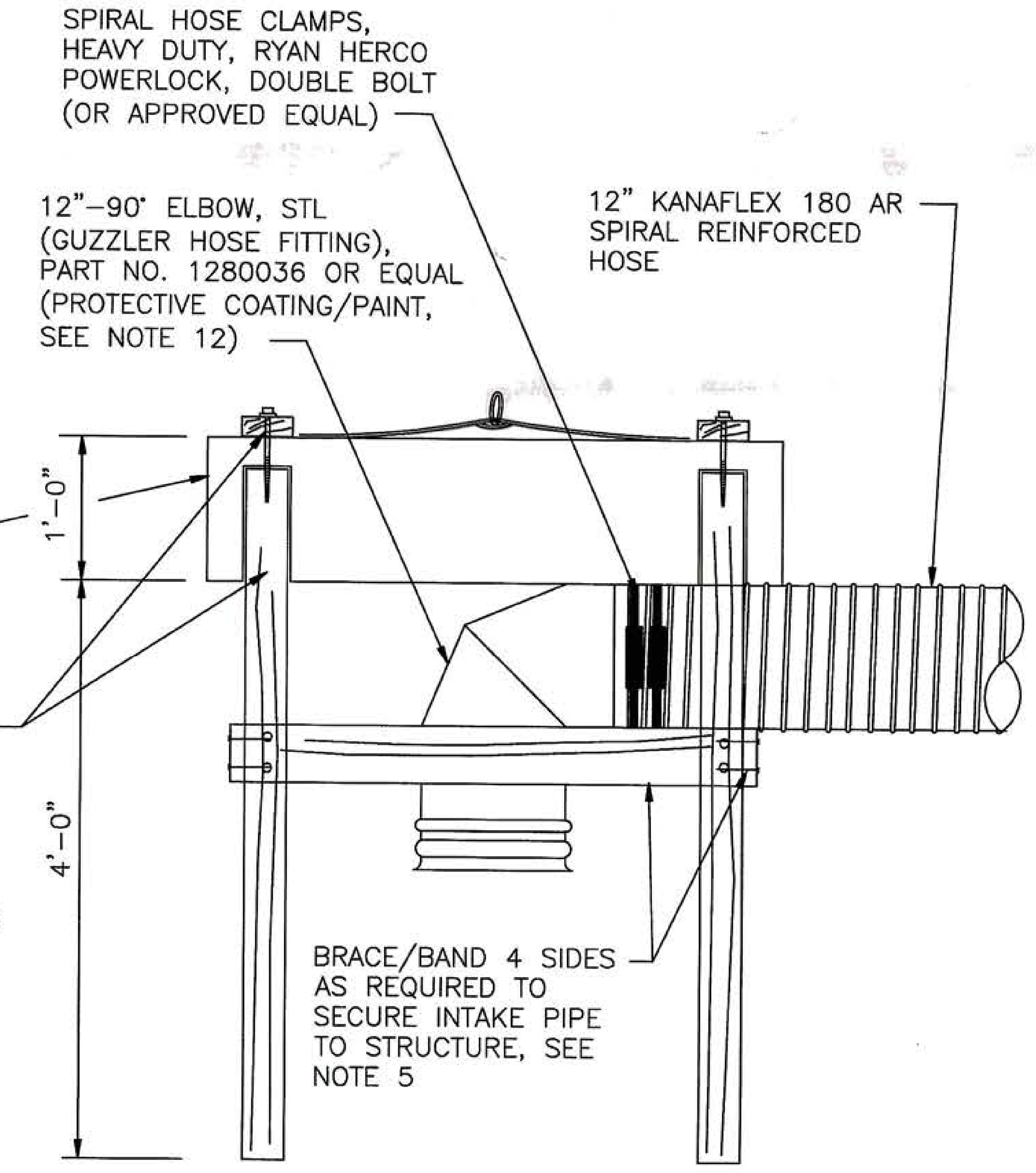


SUCTION HOSE FLOAT

N.T.S.



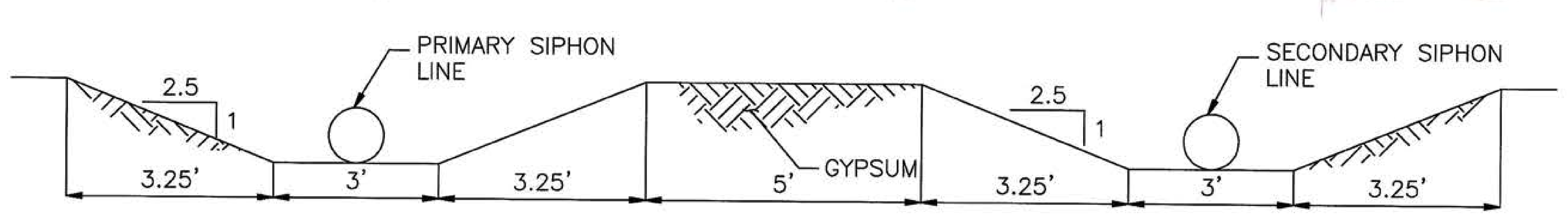
TOP VIEW



END VIEW

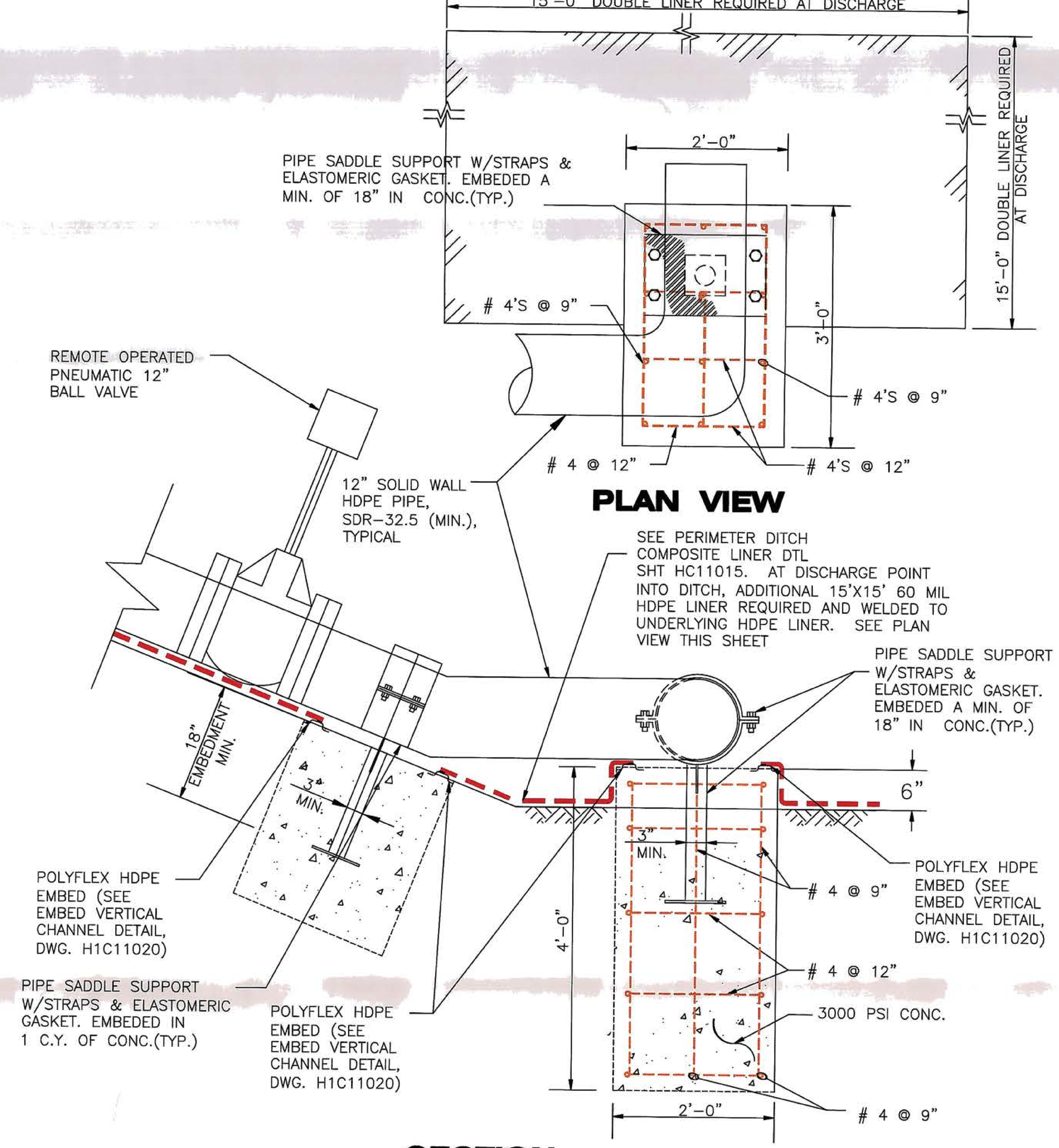
POLYETHYLENE 4'X4'X1' FLOTATION INTAKE

N.T.S.



SECTION A-A

N.T.S.



SECTION SIPHON DISCHARGE AND THRUST ANCHOR

SCALE: 1" = 1'

SIPHON INSTALLATION AND OPERATION NOTES:

INSTALLATION AND MAINTENANCE:

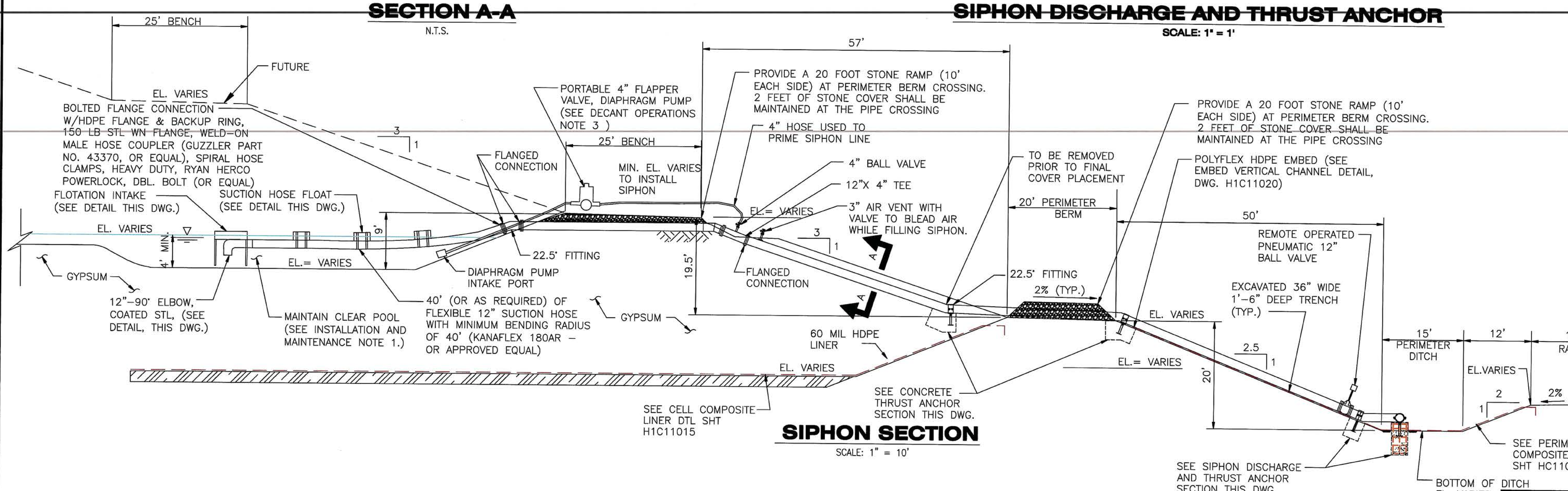
1. MAINTAIN CLEAR POOL AREA AT SIPHON INTAKE OF SUFFICIENT DEPTH DURING DECANT OPERATIONS OF CELL. (5' SUGGESTED DEPTH, 3' MINIMUM DEPTH– WILL LOOSE SIPHON AT 2' DEPTH).
2. SECOND SIPHON SHOULD BE CAREFULLY MAINTAINED, TESTED, AND SHOULD BE IN POSITION FOR USE AS REQUIRED DURING STORM EVENTS. THE SECOND SIPHONS INTAKE POINT SHOULD BE POSITIONED 50' OR MORE FROM PRIMARY INTAKE SIPHON.
4. FLAG/PROTECT VALVES AND APPURTENANCES OF SIPHON TO PREVENT DAMAGE FROM TRAFFIC AT TOP OF DIKES.
5. SIPHON MUST BE MAINTAINED AIRTIGHT TO PREVENT LOSS OF SUCTION DURING OPERATIONS.
6. WATER SUPPLY INTO SIPHON MAY BE PUMPED FROM CELL OR PLANT WATER.
7. UPPER SECTION OF SIPHON AT TOP-OF-DIKE SHOULD BE COVERED WITH A MINIMUM OF 2 FEET OF COMPACTED COVER ABOVE PIPE SUPPORTS. UPPER FOOT OF COVER SHOULD BE CRUSHED AGGREGATE BASE MATERIAL.
8. TO REMOVE ANY ACCUMULATED HARDENED GYPSUM FROM INSIDE SURFACE OF PIPE, OPERATOR MAY PERIODICALLY USE HAND-HELD RUBBER HAMMER STRIKING OUTSIDE SURFACE OF MAIN SIPHON LINE. CARE SHOULD BE TAKEN TO PREVENT DAMAGE TO SIPHON VALVES/APPURTENANCES. MOTOR OPERATED EQUIPMENT SHALL NOT BE USED TO STRIKE SIPHON.
9. A PRE MANUFACTURED 4'X4'X12" POLYETHYLENE DOCK FLOAT SECTION, WITH EXPANDED POLYSTYRENE FILL, MAY BE ACQUIRED AT WWW.PROTATCH.COM OR EQUAL SUPPLIER.
10. PRIMARY AND SECONDARY SIPHONS ARE TO RUN APPROXIMATELY 5 FEET APART AND PARALLEL WITH EACH OTHER UP TO EACH LIFT TO FINAL LIFT CONSTRUCTION. WHEN EACH LIFT IS CONSTRUCTED, A TEMPORARY EXTENSION OF THE SECONDARY SIPHON IS TO BE RUN AT A MINIMUM DISTANCE OF 75 FEET FROM THE PRIMARY SIPHON TO FACILITATE CONSTRUCTION OF THE NEXT BERM LIFT. ONCE THE BERM IS COMPLETE, THE SIPHONS CAN CONTINUE TO BE PLACED PARALLEL WITH EACH OTHER UP THE SLOPE TO THE NEXT LEVEL.

DECANT OPERATIONS:

1. INSURE POOL ELEVATION OF GYPSUM CELL IS OF SUFFICIENT DEPTH TO ALLOW DRAWDOWN.
2. CLOSE GATE VALVE AT PIPE DISCHARGE END. VALVE SHOULD BE A PNEUMATICALLY OPERATED BALL VALVE WHICH CAN BE OPERATED FROM THE TOP OF DIKE AREA TO FACILITATE SEQUENCE OF OPERATION/FILLING OF SIPHON.
3. OPEN AIR VENT VALVE AND OPEN WATER SUPPLY VALVE AT TOP OF SIPHON/DIKE AND FILL DISCHARGE PIPE FROM DOWNSTREAM BALL VALVE UNTIL WATER DISCHARGES FROM AIR VENT. (A 4" FLAPPER VALVE, DIAPHRAGM PUMP WITH A 25' VERTICAL LIFT AND A FLOW RATE OF 160 GALLONS PER MINUTE WILL FILL A 136' SECTION OF 12" PIPE IN 5 MINUTES.)
4. TURN OFF WATER SUPPLY WHEN DOWNSTREAM PIPE IS FILLED AND CLOSE AIR VENT VALVE.
5. OPEN DISCHARGE VALVE (PNEUMATIC BALL VALVE) TO START SIPHON.
6. REGULATE FLOW FROM CELL BY DISCHARGE VALVE. FOR CONTINUOUS OPERATION, IT IS NECESSARY FOR THE FLOWS BEING DISCHARGED INTO THE CELL TO BE EQUAL TO THE FLOW BEING SIPHONED FROM THE CELL. THIS WILL TAKE SEVERAL DAYS OF ADJUSTING THE DISCHARGE VALVE TO ACHIEVE THIS BALANCE. THE OPENING PERCENTAGE OF THE VALVE SHOULD BE NOTED OR MARKED ON THE VALVE INDICATING VALVE POSITION FOR BALANCED FLOW UNDER NORMAL OPERATING CONDITIONS. THE DISCHARGE SIPHONED VALVE MAY ALSO BE ADJUSTED TO DISCHARGE SMALL RAINFALL EVENTS; HOWEVER, STORM FLOW DISCHARGE OPERATING PROCEDURES SHOULD BE FOLLOWED DURING MAJOR STORM EVENTS.

STORM FLOW DISCHARGE OPERATIONS:

1. MAINTAIN DECANT SIPHON FLOW WITH DISCHARGE VALVE OPEN FOR FULL FLOW.
2. PRIME SECOND SIPHON USING PROCEDURES ABOVE AND SET DISCHARGE VALVE OPEN TO FULL FLOW.
3. MONITOR WATER LEVELS IN CELL ALONG WITH SEDIMENTATION AND RETURN WATER PONDS. INCREASE FLOW FROM SEDIMENTATION POND TO RETURN WATER POND VIA GATE VALVE AT SEDIMENTATION POND DISCHARGE TO INCREASE STORM WATER STORAGE.
4. SHUT OFF SECOND SIPHON WHEN WATER LEVEL IN CELL RETURNS TO PROCESS ELEVATION. (CLOSE PNEUMATIC BALL VALVE AT DISCHARGE OF SIPHON).



SIPHON SECTION

SCALE: 1" = 10'

Georgia Environmental Protection Division, Solid Waste Management Program — MINOR MODIFICATION APPROVAL — Solid Waste Permit No. 102-009D(LI) — CEH 4/12/11 — MAN 5/3/2011

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12687 GARY H. McWHORTER — 4/6/10

REVISION	DATE	DESCRIPTION	NOTE	REA	EWO	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
2	7-24-09	A. GENERAL REVISION PER EPD REVIEW	"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."	SH-07880	3511DE	JWM	PMG	JAH				CKT
1	6-01-09	A. GENERAL REVISION PER EPD REVIEW	"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."	SH-07880	3511DE	JAA	PMG	BDP				CKT
0	12-01-08	ISSUED FOR PERMIT	"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."	SH-07880	3511DE	DJH	PMG	BDP				CKT

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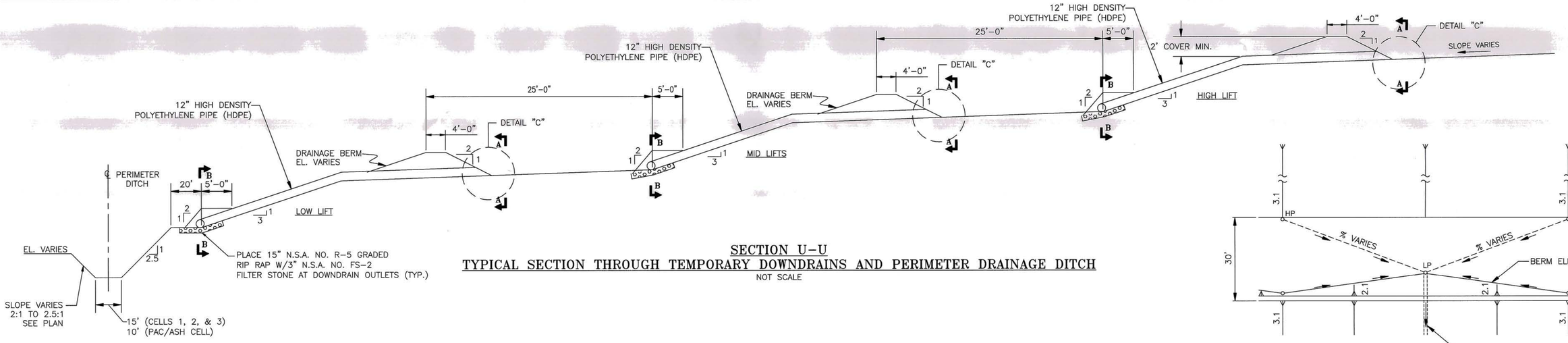
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL 1 THROUGH CELL 3
SIPHON SECTIONS AND DETAILS

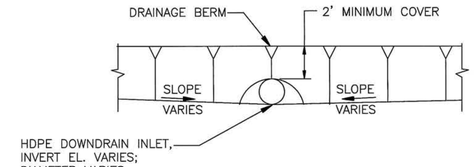
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11031	1	FINAL	2

ANSI F: 40x28 Acad2004

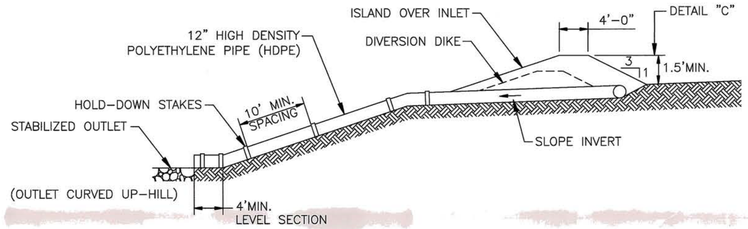


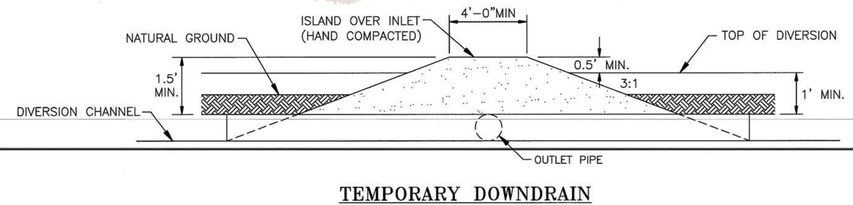
SECTION U-U
TYPICAL SECTION THROUGH TEMPORARY DOWNDRAINS AND PERIMETER DRAINAGE DITCH
NOT SCALE

TYPICAL BERM DRAIN PLAN
NOT TO SCALE
TYPICAL PLAN ALONG 30' BERM

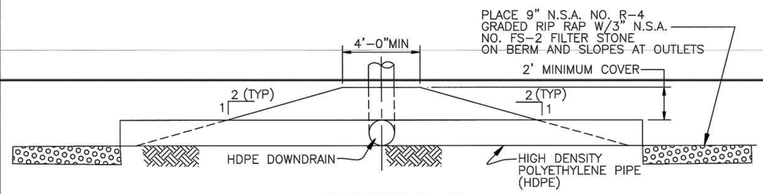


SECTION A-A
NOT TO SCALE

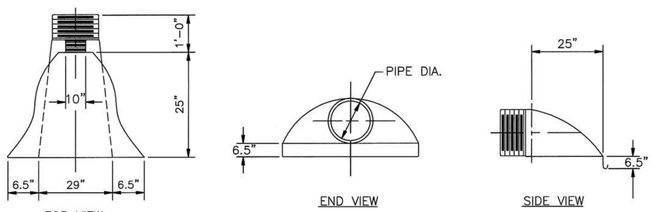




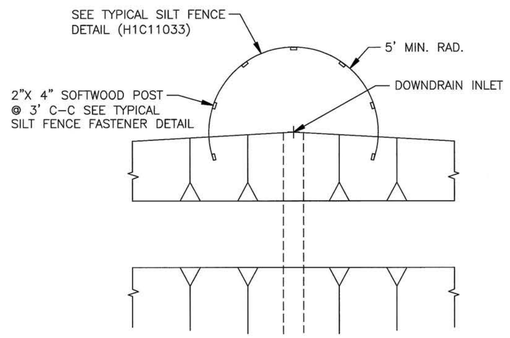
TEMPORARY DOWNDRAIN AND INLET DETAILS
NOT TO SCALE
(FOR EXCAVATION PHASE)



SECTION B-B
NOT TO SCALE



END SECTION DIMENSIONS
NOT TO SCALE



DETAIL "C" TYPICAL DOWNDRAIN INLET PROTECTION
NOT TO SCALE

NOTES:

1. PLACE SLOPE DRAINS ON UNDISTURBED SOIL OR WELL-COMPACTED FILL AT LOCATIONS AND ELEVATIONS SHOWN ON THE PLAN.
2. SLIGHTLY SLOPE THE SECTION OF PIPE UNDER THE DIKE TOWARDS ITS OUTLET.
3. HAND TAMP THE SOIL UNDER AND AROUND THE ENTRANCE SECTION IN LIFTS NOT TO EXCEED 6 INCHES.
4. ENSURE THAT FILL OVER THE DRAIN AT THE TOP OF THE SLOPE HAS MINIMUM DIMENSIONS SHOWN.
5. ENSURE THAT ALL SLOPE DRAIN CONNECTIONS ARE WATER-TIGHT.
6. ENSURE THAT ALL FILL MATERIAL IS WELL COMPACTED. SECURELY FASTEN THE EXPOSED SECTION OF THE DRAIN WITH GROMMETS OR STAKES SPACED NO MORE THAN 10 FEET APART.
7. PLACE THE DRAIN SLIGHTLY DIAGONALLY ACROSS THE SLOPE, EXTENDING THE DRAIN BEYOND THE TOE OF THE SLOPE. CURVE THE OUTLET UPHILL AND ADEQUATELY PROTECT THE OUTLET FROM EROSION.
8. DIRECT ALL FLOWS INTO A SEDIMENT TRAP OR SEDIMENT BASIN.
9. MAKE THE SETTLED, COMPACTED DIKE RIDGE NO LESS THAN ONE FOOT ABOVE THE TOP OF THE PIPE AT EVERY POINT.
10. IMMEDIATELY STABILIZE ALL DISTURBED AREAS FOLLOWING CONSTRUCTION.
11. INSPECT THE SLOPE DRAIN AND SUPPORTING DIVERSION AFTER EVERY RAINFALL AND PROMPTLY MAKE NECESSARY REPAIRS.
12. WHEN THE PROTECTED AREA HAS BEEN PERMANENTLY STABILIZED AND THE PERMANENT STORMWATER DISPOSAL SYSTEM IS FULLY FUNCTIONAL, TEMPORARY MEASURES MAY BE REMOVED, MATERIALS DISPOSED OF PROPERLY, AND ALL DISTURBED AREAS STABILIZED APPROPRIATELY.
13. FOR A COMPLETE DRAWING LIST SEE SHEET H1C11000.
14. SEE SHEET H1C1004 FOR GENERAL NOTES AND REFERENCES.

Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
Permit No. 102-009D(LT)
By: [illegible] Date: 9/12/11
[illegible] 5/3/2011

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER Gary H. McWhorter 5/3/10

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Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

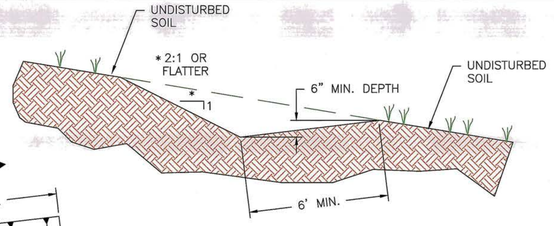
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3 & PAC/ASH CELL
EROSION CONTROL SECTIONS & DETAILS

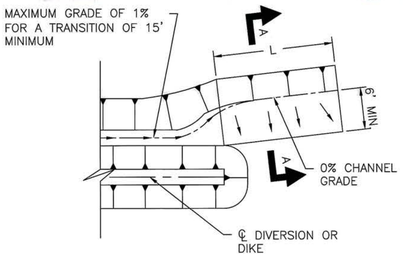
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 2	DATE 11-25-09	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 1	DATE 6-01-09	JAA	PMG	BDP				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 0	DATE 12-01-08	JAA	PMG	BDP				CKT
ISSUED FOR REVIEW AND COMMENT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07880 EWO:3511DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	**H1C11032**	1	FINAL	2

ANSI F: 40x28 Acad2004

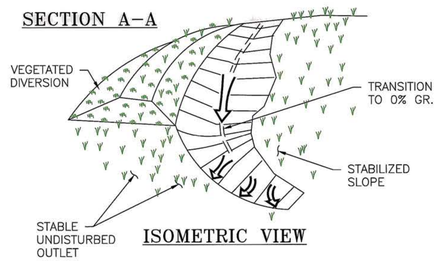
DESIGNED Q10/24 (CFS)	MINIMUM LENGTH "L" (FEET)
UP TO 10	10
11 TO 20	20
21 TO 30	30
31 TO 40	40
41 TO 50	50





PLAN

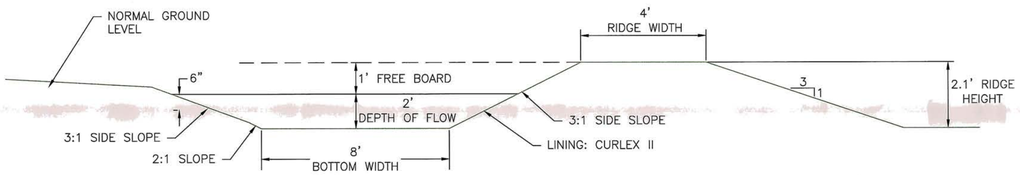
SECTION A–A



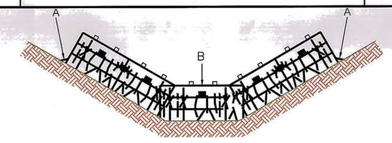
ISOMETRIC VIEW

NOTES:
1. GRADE OF CHANNEL FOR LAST 15 FEET OF THE DIKE OR DIVERSION ENTERING THE LEVEL SPREADER SHALL BE LESS THAN OR EQUAL TO 1%.
2. LEVEL SPREADERS MUST BE CONSTRUCTED ON UNDISTURBED SOIL.

TYPICAL LEVEL SPREADER DETAIL (Lv)
N.T.S.

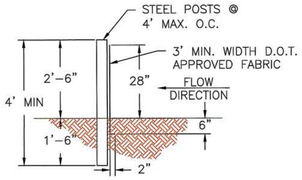


NOTES:
1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
2. THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. ALL FILLS SHALL BE MACHINE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED DIVERSION.
4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION.
5. DIVERSION CHANNEL SHALL BE STABILIZED TO PREVENT MIGRATION OF SOIL FROM DITCH AND/OR BERM.



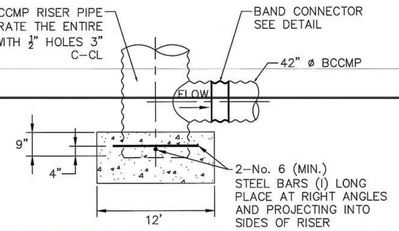
NOTES:
1. POINTS "A" SHOULD BE HIGHER THAN POINT "B".
2. EMBED HAY BALES A MINIMUM OF 4 INCHES.
3. HAY BALES ARE TO BE BOUND WITH WIRE OR NYLON.
4. EACH BALE SHALL BE CONSTRAINED BY TWO 2"x 2" WOODEN STAKES OR TWO 1/2" ø STEEL REINFORCING BARS EMBEDDED 2 FT. IN THE GROUND.
5. HAY BALE CHECK DAMS SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED.
6. SEDIMENT BEHIND CHECK DAM SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE–HALF THE ORIGINAL DEPTH OF CHECK DAM OR BEFORE.

PLACEMENT OF HAY BALE BARRIER IN DRAINAGE WAY (Sd1–Hb)
N.T.S.

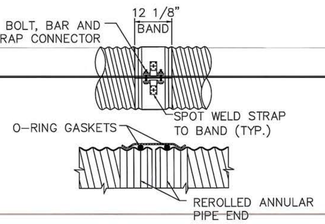


NOTE:
THE SILT FENCE SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE FABRIC

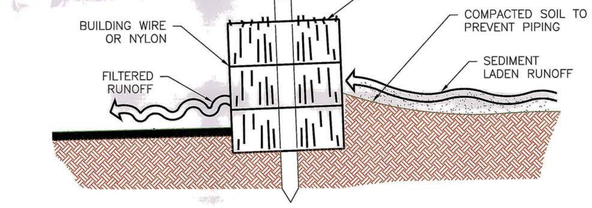
TYPICAL SILT FENCE DETAIL TYPE "C" (Sd1–C)
SCALE: 1"=2'



CONCRETE RISER BASE DETAIL
NOT TO SCALE

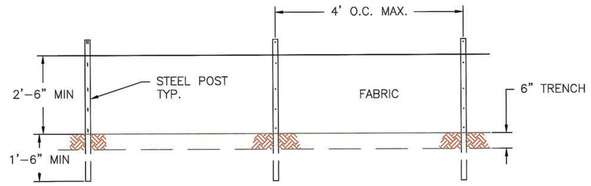


BAND CONNECTOR DETAIL
NOT TO SCALE



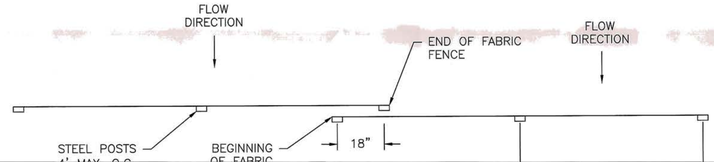
NOTE: EMBED HAY BALE A MINIMUM OF 4 INCHES

CROSS SECTION OF INSTALLED HAY BALE (Sd1–Hb)
N.T.S.



NOTE:
USE 36" D.O.T. APPROVED FABRIC
USE STEEL POLES

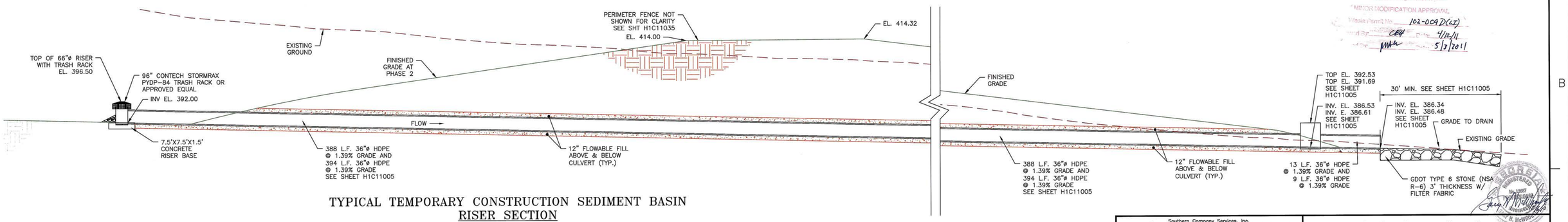
TYPICAL SILT FENCE FRONT VIEW (Sd1–C)
SCALE: 1"=2'



TOP VIEW

TYPICAL SILT FENCE TYPE C– OVERLAP DETAIL (Sd1–C)
SCALE: 1"=2'

DIVERSION DETAIL (EXCAVATION PHASE) (Di)
SCALE: 1"=2'



TYPICAL TEMPORARY CONSTRUCTION SEDIMENT BASIN RISER SECTION
NOT TO SCALE
(H1C11005)

Georgia Environmental Protection Division
Watershed Protection Branch
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
Permit No. 102-004D(LF)
Reviewed By: CEH 4/12/11
Approved By: MMH 5/3/2011

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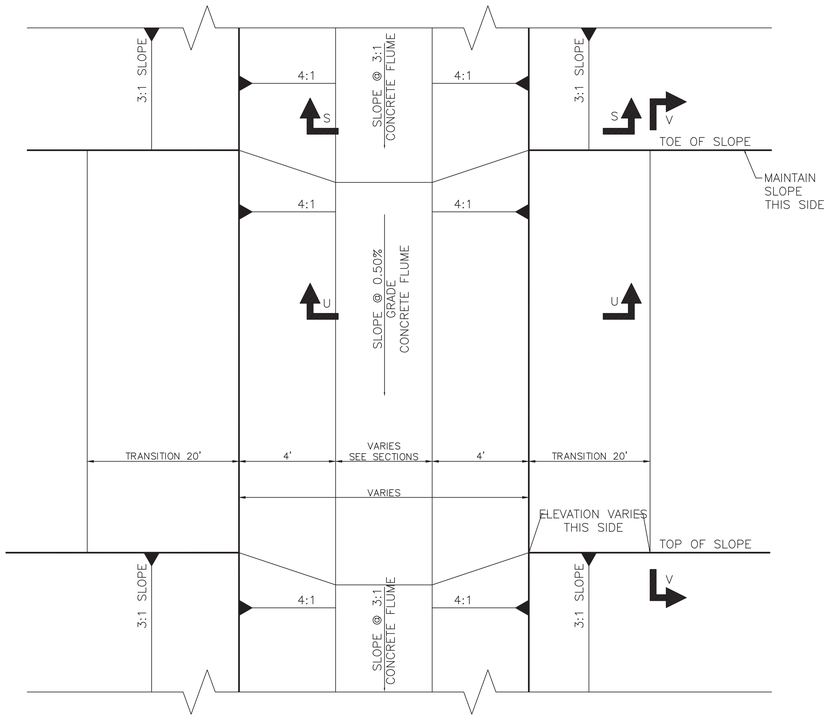
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL CO. 3 & PAC/ASH CELL
EROSION CONTROL SECTIONS & DETAILS

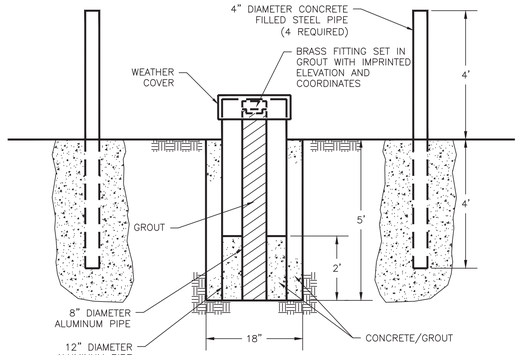
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 4	12–03–10	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
REVISION 3	DATE 2–26–10	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
REVISION 2	DATE 11–25–09	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
REVISION 1	DATE 6–01–09	JAA	PMG	BDP				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
REVISION 0	DATE 12–01–08	EO	PMG	BDP				CKT
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO:3511DE							

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11033	1	FINAL	4

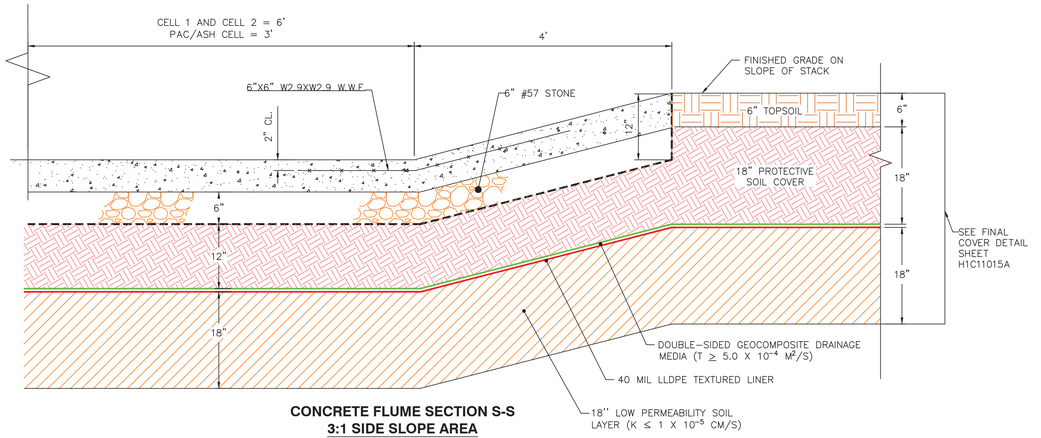
ANSI F: 40x28 Acad2004



BERM TRANSITION AT FLUME DETAIL
PLAN VIEW
N.T.S.



SURVEY CONTROL MONUMENT
NOT TO SCALE



CONCRETE FLUME SECTION S-S
3:1 SIDE SLOPE AREA
N.T.S.

GWCXX

SWCXX

GROUND WATER & SURFACE WATER MONITORING POINT SIGNAGE
WHITE BACKGROUND WITH RED LETTERING 4" X 24"

BUFFER ZONE

THE BUFFER ZONE SHALL NOT BE DISTURBED EXCEPT FOR DIRECT SITE INGRESS/EGRESS AND FOR GROUNDWATER MONITORING WELL INSTALLATION

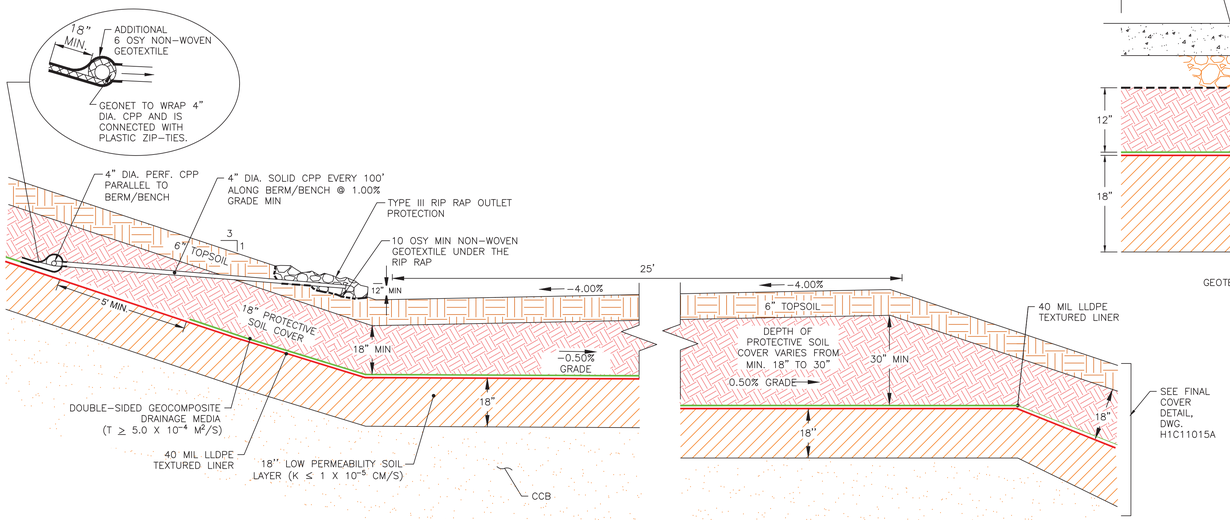
PLANT SCHERER
COAL COMBUSTION BYPRODUCT DISPOSAL FACILITY

THIS DISPOSAL FACILITY WILL ACCEPT ONLY COAL COMBUSTION BYPRODUCTS. ANY OTHER WASTES ARE PROHIBITED.

BUFFER ZONE SIGNAGE
YELLOW BACKGROUND
WITH BLACK LETTERING
18" X 24"

ENTRANCE SIGNAGE
WHITE BACKGROUND
WITH BLACK LETTERING
4' X 6'

SIGNAGE
NOT TO SCALE



FINAL COVER INTERNAL DRAIN OUTLET
DETAIL BERM TRANSITION SECTION V-V
N.T.S.

CONCRETE FLUME SECTION U-U AT
CENTERLINE OF BERM
N.T.S.

GEORGIA REGISTERED No. 17083 PROFESSIONAL 11-12-18 ENGINEER CLAUDIA M. MOELLER

GEORGIA REGISTERED NO. 27185 PROFESSIONAL 11/12/18 ENGINEER R. BRANT LANE

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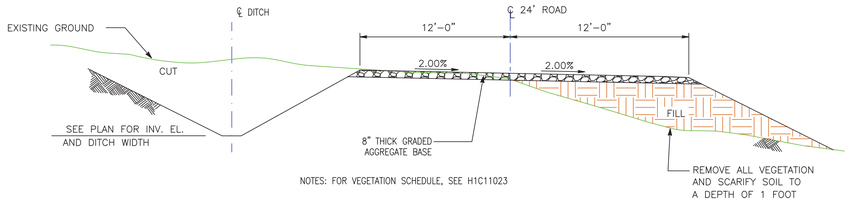
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1, CELL NO. 2 & PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 4	DATE 11-01-2018	AMC	CMM	RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								
REPLACED GCL WITH 18" LOW-PERMEABILITY SOIL LAYER (K≤1X10⁻⁵ CM/S). REVISED FINAL COVER OUTLET. REVISED FLUME SECTIONS FOR COMPOSITE COVER SYSTEM. REMOVED REFERENCES TO CELL NO. 3								
REVISION 3	DATE 02-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO:3511DE								
REVISION 2	DATE 11-25-09	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO:3511DE								
REVISION 1	DATE 6-1-09	JWM	PMG	BDP				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO:3511DE								
REVISION 0	DATE 12-1-08	JWM	PMG	BDP				CKT
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO:3511DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	**H1C11034**	1	FINAL	4

ANSI F: 40x28 Acad2004

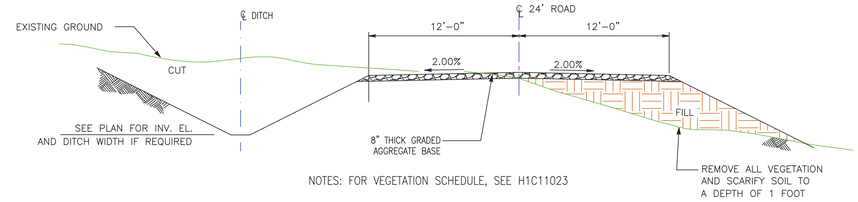


NOTES: FOR VEGETATION SCHEDULE, SEE H1C11023

PUMP ACCESS ROAD
TYPICAL SECTION

NOT TO SCALE

(H1C11005, H1C11006, H1C11007, & H1C11008)

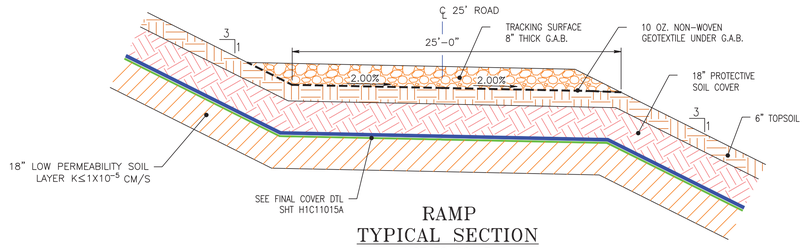


NOTES: FOR VEGETATION SCHEDULE, SEE H1C11023

ACCESS ROAD
TYPICAL SECTION

NOT TO SCALE

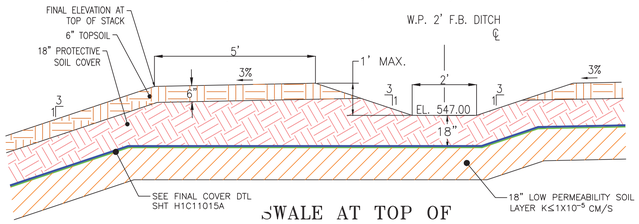
(H1C11005, H1C11006, H1C11007, & H1C11008)



RAMP
TYPICAL SECTION

NOT TO SCALE

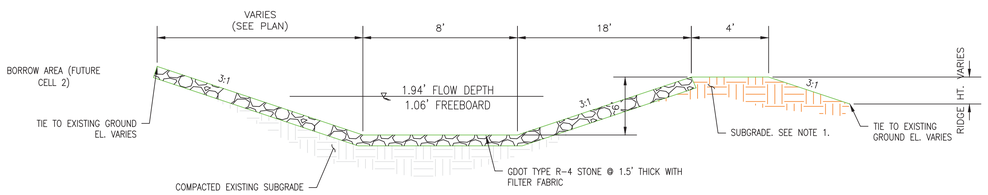
(H1C11006, H1C11008, & H1C11010)



SWALE AT TOP OF STACK
DETAIL

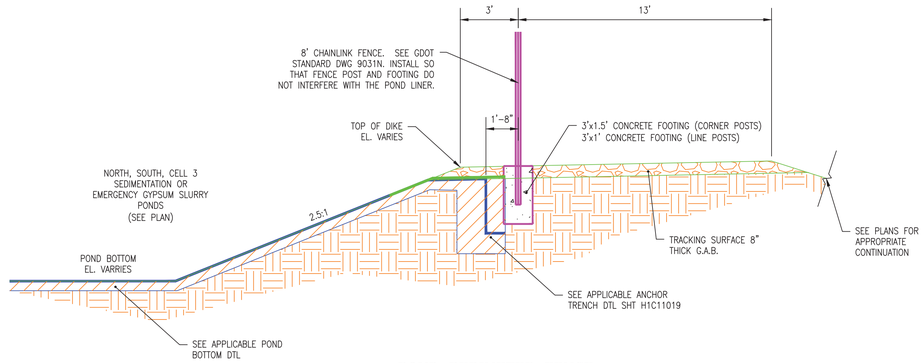
NOT TO SCALE

(H1C11006, H1C11008, & H1C11010)



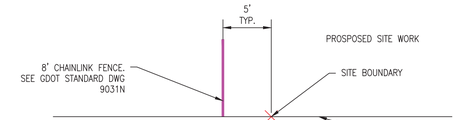
CELL 2 TEMPORARY PERIMETER DITCH
TYPICAL SECTION–RIPRAP LINING

N.T.S.



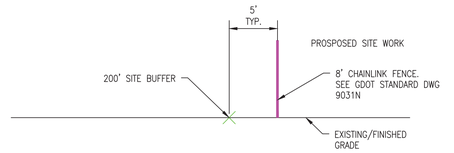
POND PERIMETER FENCE
TYPICAL SECTION

N.T.S.



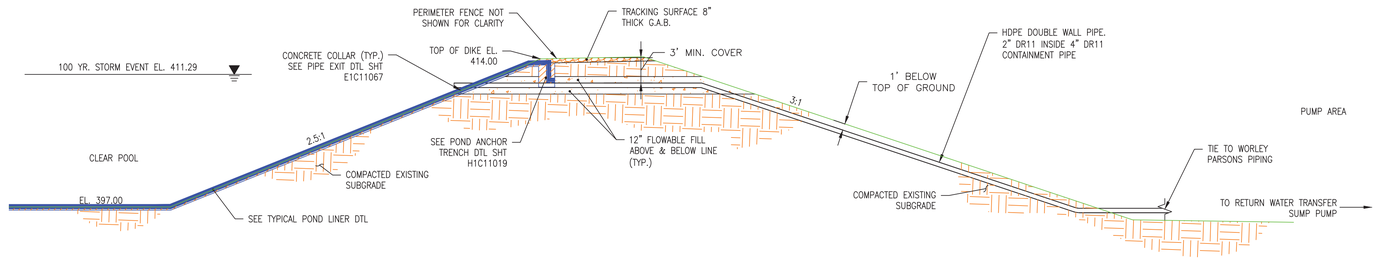
TYPICAL FENCE SECTION A

N.T.S.



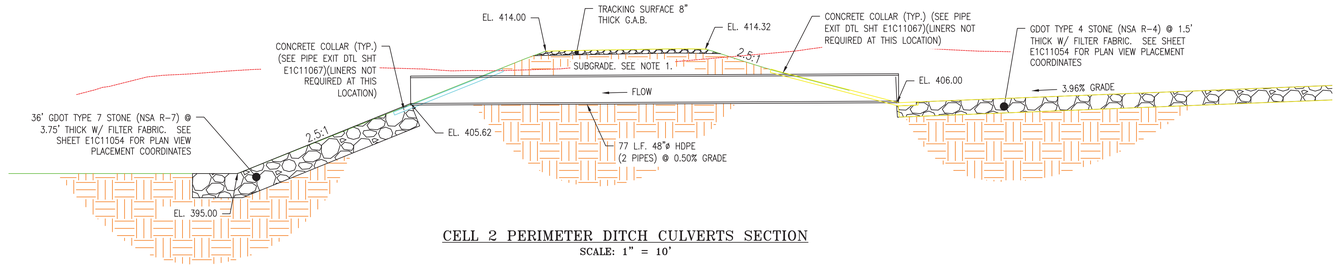
TYPICAL FENCE SECTION B

N.T.S.



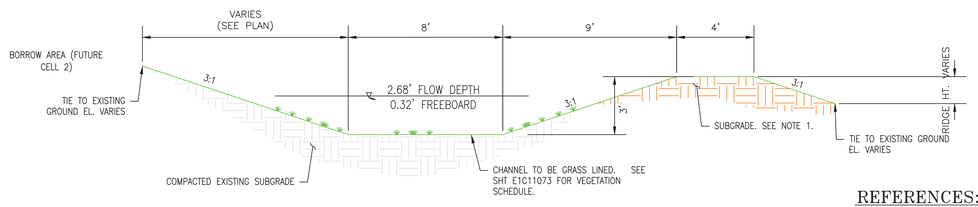
RETURN WATER PIPE FROM TRANSFER SUMP PUMP
SECTION AT CLEAR POOL

SCALE: 1" = 10'



CELL 2 PERIMETER DITCH CULVERTS SECTION

SCALE: 1" = 10'



CELL 2 TEMPORARY PERIMETER DITCH
TYPICAL SECTION–VEGETATED LINING

N.T.S.

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11005 CELL NO. 1 SITE DEVELOPMENT BASE GRADING PLAN
H1C11006 CELL NO. 1 FINAL STACKING PLAN
H1C11007 CELL NO. 2 SITE DEVELOPMENT BASE GRADING PLAN
H1C11008 CELL NO. 1 AND CELL NO. 2 FINAL STACKING PLAN
H1C11014 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11016 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11017 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS

GENERAL NOTES:

1.THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

GEORGIA REGISTERED No. 17885 PROFESSIONAL ENGINEER 11-12-15 CLAUDIA M. MCMILLER

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER 11/12/15 R. BRANT LANE

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANOUS SECTIONS AND DETAILS

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 5	11-01-2018	AMC	CMM	RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								
ADDED FINAL COVER SECTION TO RAMP TYPICAL SECTION AND SWALE AT TOP OF STACK DETAIL. REVISED DRAWING TITLES IN THE REFERENCES. ADD TRACKING SURFACE TO RAMP TYPICAL SECTION.								
REVISION 4	02-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 3	11-25-09	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 2	7-24-09	JWM	PMG	JAH				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 1	6-01-09	JAA	PMG	BDP				CKT
A. GENERAL REVISION PER EPD REVIEW								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 0	12-01-08	JWM	PMG	BDP				CKT
ISSUED FOR PERMIT								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
N.T.S.	010505	H1C11035	1	FINAL	5

ANSI F: 40x28 Acad2004

CELL NO. 1 AND CELL NO. 2

FLUME A			
POINT NO.	NORTHING	EASTING	ELEVATION
A1	1119483.584	2410083.960	548.00
A2	1119481.397	2410070.000	548.00
A3	1119425.174	2410093.193	526.98
A4	1119422.988	2410079.365	526.98
A5	1119241.794	2410122.180	506.25
A6	1119239.658	2410108.344	506.25
A7	1119059.305	2410151.027	487.21
A8	1119057.159	2410137.192	487.21
A9	1118876.817	2410179.873	466.79
A10	1118874.659	2410166.040	466.79
A11	1118694.326	2410208.720	446.42
A12	1118692.155	2410194.889	446.42
A13	1118447.121	2410247.796	430.80
A14	1118446.490	2410233.722	430.80
A15	1118379.012	2410251.475	410.94
A16	1118380.024	2410258.402	410.94

FLUME B			
POINT NO.	NORTHING	EASTING	ELEVATION
B1	1119719.827	2409888.115	548.00
B2	1119733.820	2409888.546	548.00
B3	1119721.445	2409829.154	526.98
B4	1119735.439	2409829.551	526.98
B5	1119724.318	2409724.470	506.41
B6	1119738.313	2409724.821	506.41
B7	1119727.854	2409595.593	486.61
B8	1119741.850	2409595.943	486.61
B9	1119730.735	2409490.592	466.46
B10	1119744.731	2409490.957	466.46
B11	1119733.617	2409385.575	446.31
B12	1119747.612	2409385.953	446.31
B13	1119734.759	2409343.967	444.66
B14	1119748.735	2409345.036	444.66
B15	1119736.283	2409288.418	429.96
B16	1119750.269	2409289.117	429.96

FLUME C			
POINT NO.	NORTHING	EASTING	ELEVATION
C1	1120138.063	2410114.761	548.00
C2	1120151.616	2410118.305	548.00
C3	1120154.791	2410058.677	526.91
C4	1120168.369	2410062.133	526.91
C5	1120178.667	2409978.625	506.72
C6	1120192.283	2409981.955	506.72
C7	1120202.543	2409898.573	486.61
C8	1120216.196	2409901.778	486.61
C9	1120230.819	2409803.769	466.54
C10	1120244.258	2409807.692	466.54
C11	1120252.062	1120252.062	451.70
C12	1120265.414	2409736.758	451.70
C13	1120267.902	2409679.436	437.13
C14	1120281.239	2409683.700	437.13

FLUME D			
POINT NO.	NORTHING	EASTING	ELEVATION
D1	1120564.443	2410097.764	548.00
D2	1120576.246	2410105.295	548.00
D3	1120596.201	2410047.991	526.91
D4	1120608.069	2410055.569	526.91
D5	1120665.486	2409939.249	506.78
D6	1120677.425	2409946.867	506.78
D7	1120734.913	1120734.913	486.38
D8	1120746.782	2409838.164	486.38
D9	1120804.198	2409721.844	466.54
D10	1120816.138	2409729.462	466.54
D11	1120869.104	2409620.268	448.74
D12	1120881.116	2409627.469	448.74
D13	1120912.156	2409552.792	432.34
D14	1120924.956	2409558.759	432.34

FLUME E			
POINT NO.	NORTHING	EASTING	ELEVATION
E1	1120498.853	2410310.815	548.00
E2	1120491.170	2410322.519	548.00
E3	1120547.757	2410342.918	526.90
E4	1120540.075	2410354.622	526.90
E5	1120617.561	2410388.740	506.48
E6	1120609.878	2410400.444	506.48
E7	1120687.365	2410434.562	486.19
E8	1120679.682	2410446.266	486.19
E9	1120757.169	2410480.384	466.96
E10	1120749.486	2410492.088	466.96
E11	1120826.973	2410526.206	446.84
E12	1120819.290	2410537.910	446.84
E13	1120867.052	2410552.516	440.35
E14	1120859.657	2410564.408	440.35
E15	1120919.047	2410586.647	423.07
E16	1120911.657	2410598.544	423.07

FLUME F			
POINT NO.	NORTHING	EASTING	ELEVATION
F1	1120259.903	2410623.637	548.00
F2	1120245.912	2410623.144	548.00
F3	1120257.820	2410681.460	526.90
F4	1120243.829	2410680.953	526.90
F5	1120238.305	2410852.247	506.48
F6	1120224.791	2410848.590	506.48
F7	1120210.397	2410955.391	486.19
F8	1120196.884	2410951.734	486.19
F9	1120182.490	2411058.535	466.39
F10	1120168.976	2411054.877	466.39
F11	1120154.589	2411161.654	446.28
F12	1120141.077	2411157.989	446.28
F13	1120129.490	2411254.421	431.21
F14	1120115.825	2411251.319	431.21
F15	1120112.144	2411318.528	412.31
F16	1120098.495	2411315.369	412.31

FLUME G			
POINT NO.	NORTHING	EASTING	ELEVATION
G1	1119951.800	2410299.910	548.00
G2	1119940.548	2410291.580	548.00
G3	1119917.339	2410346.704	526.15
G4	1119906.061	2410338.410	526.15
G5	1119867.946	2410413.777	506.29
G6	1119856.547	2410405.646	506.29
G7	1119806.831	2410496.768	486.42
G8	1119795.507	2410488.535	486.42
G9	1119757.316	2410564.005	466.39
G10	1119745.985	2410555.782	466.39
G11	1119707.801	2410631.242	446.28
G12	1119696.367	2410622.962	446.28
G13	1119670.426	2410681.995	435.23
G14	1119659.152	2410673.695	435.23
G15	1119637.929	2410726.124	420.78
G16	1119626.593	2410717.908	420.78

FLUME H			
POINT NO.	NORTHING	EASTING	ELEVATION
H1	1119323.397	2410281.979	486.78
H2	1119312.930	2410278.597	486.78
H3	1119298.091	2410360.290	466.78
H4	1119287.624	2410356.908	466.78
H5	1119266.549	2410457.899	446.44
H6	1119256.082	2410454.516	446.44
H7	1119244.770	2410525.294	432.72
H8	1119234.251	2410522.075	432.72
H9	1119226.879	2410580.661	417.04
H10	1119216.285	2410577.672	417.04

FLUME J			
POINT NO.	NORTHING	EASTING	ELEVATION
J1	1119277.333	2409925.156	487.07
J2	1119286.253	2409918.717	487.07
J3	1119229.161	2409858.427	466.46
J4	1119227.027	2409836.679	466.46
J5	1119169.118	2409775.257	446.31
J6	1119178.037	2409768.819	446.31
J7	1119137.724	2409731.771	438.45
J8	1119146.642	2409725.332	438.45
J9	1119102.072	2409682.387	421.83
J10	1119111.204	2409676.244	421.83

FLUME K			
POINT NO.	NORTHING	EASTING	ELEVATION
K1	1120895.790	2410114.686	467.00
K2	1120897.288	2410125.587	467.00
K3	1120978.212	2410101.124	446.77
K4	1120979.709	2410112.026	446.77
K5	1121012.703	2410095.450	444.68
K6	1121014.467	2410106.307	444.68
K7	1121073.641	2410085.423	427.58
K8	1121075.427	2410096.277	427.58

FLUME L			
POINT NO.	NORTHING	EASTING	ELEVATION
L1	1120522.022	2410838.600	466.96
L2	1120515.986	2410847.795	466.96
L3	1120591.826	2410884.422	446.67
L4	1120585.790	2410893.617	446.67
L5	1120640.711	2410916.511	436.84
L6	1120634.900	2410925.856	436.84
L7	1120692.880	2410950.758	419.47
L8	1120687.074	2410960.105	419.47

BENCH			
POINT NO.	NORTHING	EASTING	ELEVATION
HP1	1119550.206	2409934.436	528.00
HP2	1119958.767	2409988.521	528.40
HP3	1120384.658	2410075.802	528.00
HP4	1120637.436	2410205.824	528.00
HP5	1120419.247	2410538.687	528.00
HP6	1120329.303	2410640.938	527.75
HP7	1120163.494	2410620.761	528.00
HP8	1119571.110	2410186.124	528.00
HP9	1119460.061	2409896.223	508.00
HP10	1119808.322	2409762.609	507.35
HP11	1119956.345	2409857.312	508.00
HP12	1120432.488	2409882.265	508.00
HP13	1120735.768	2410178.341	508.00
HP14	1120443.384	2410653.936	508.00
HP15	1120081.173	2410681.975	508.00
HP16	1119935.950	2410470.535	507.15
HP17	1119545.908	2410265.659	508.00
HP18	1119172.150	2410233.000	488.00
HP19	1119148.457	2410018.193	488.00
HP20	1119503.852	2409763.106	488.40
HP21	1119965.669	2409757.646	488.00
HP22	1120478.619	2409881.686	488.00
HP23	1120816.114	2410149.174	488.00
HP24	1120481.134	2410748.587	488.00
HP25	1120014.187	2410731.786	488.00
HP26	1119632.115	2410381.069	488.40
HP27	1119355.656	2410378.892	467.51
HP28	1119068.068	2410287.218	468.00
HP29	1119033.034	2409999.136	468.00
HP30	1119239.701	2409850.818	466.91
HP31	1119475.733	2409656.889	468.00
HP32	1119990.530	2409640.265	468.00
HP33	1120526.787	2409779.522	468.00
HP34	1120868.481	2409916.745	468.00
HP35	1120866.746	2410313.289	468.00
HP36	1120635.754	2410665.344	468.00
HP37	1120375.753	2410991.574	468.00
HP38	1119966.733	2410807.260	468.00
HP39	1119524.960	2410453.895	468.00
HP40	1119077.331	2410376.702	447.81
HP41	1118964.244	2410340.598	448.00
HP42	1118975.549	2409938.531	448.40
HP43	1119452.718	2409570.518	448.00
HP44	1120944.784	2409857.699	448.00
HP45	1120954.419	2410332.060	448.00
HP46	1120705.558	2410711.166	448.00
HP47	1120401.299	2411071.513	448.00
HP48	1119926.503	2410893.823	448.00
HP49	1119486.558	2410529.082	448.00
HP50	1118818.114	2410374.662	430.81
HP51	1118769.681	2410006.890	435.04

GEORGIA REGISTERED No. 17863 PROFESSIONAL 11-12-18 ENGINEER CLAUDIA M. MOELLER

GEORGIA REGISTERED NO. 27185 PROFESSIONAL 11/12/18 ENGINEER R. BRANT LANE

REFERENCE DRAWINGS

H1C11000 TITLE SHEET AND DRAWING INDEX

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
FLUME DATA SHEET

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION 3	DATE 11-01-2018	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]		AMC	CMM	RBL				
REMOVED CELL 3 FLUME DATA.								

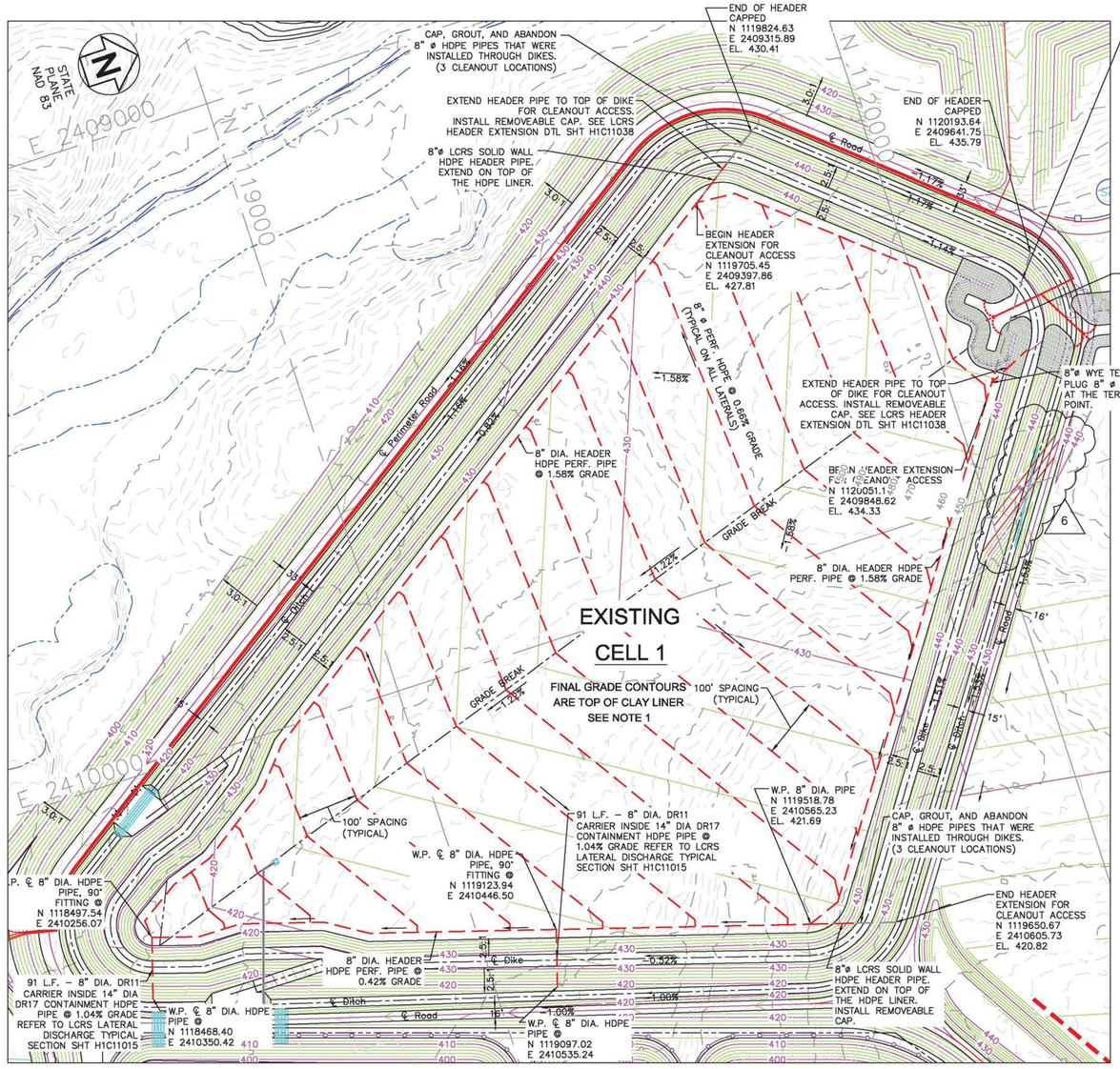
REVISION 2	DATE 11-25-09	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR PERMIT MODIFICATION		AAD	PMG	JAH				JBS
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							

REVISION 1	DATE 6-01-09	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION PER EPD REVIEW		JAA	PMG	BDP				CKT
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							

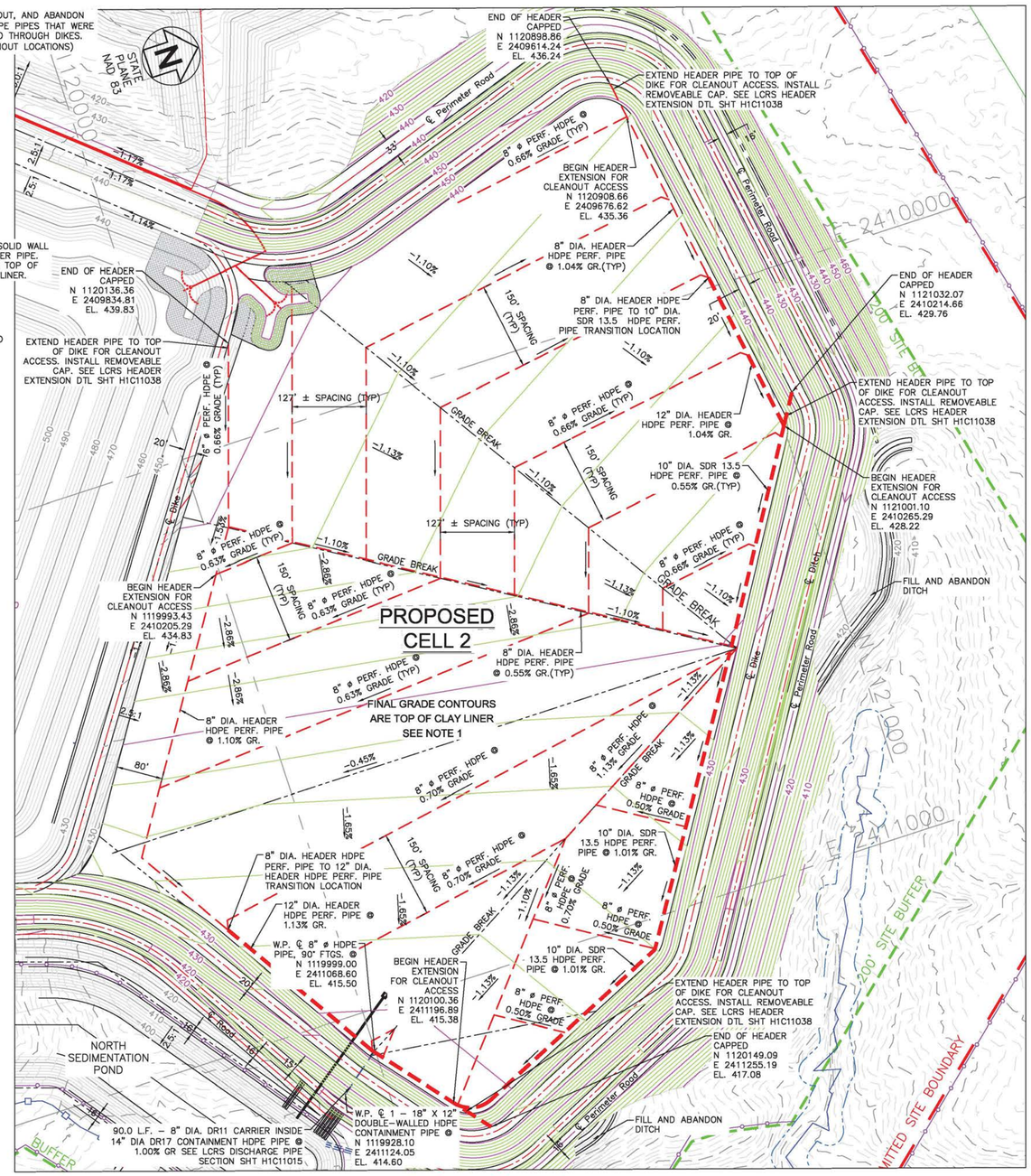
REVISION 0	DATE 12-01-08	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ISSUED FOR REVIEW AND COMMENT		JAA	PMG	BDP				CKT
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
NONE	010505	**H1C11036**	1	FINAL	3

ANSI F: 40x28 Acad2004



CELL 1
LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)
SCALE: 1" = 100'



CELL 2
LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)
SCALE: 1" = 100'

NOTES:

1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER.
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SIDE SLOPES OF THE PONDS ARE TOP OF CLAY LINER.
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
4. SEE DRAWING H1C11038 FOR DETAILS OF LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) PIPES, TRENCHES AND BEDDING.
5. ALL 8" DIA PIPES ASSOCIATED WITH THE LCRS PIPES, HEADER PIPES, AND OUTFALL PIPES, SHALL BE SMOOTH WALL HDPE AND MAXIMUM RATED SDR–13.5. LATERAL AND HEADER PIPES SHALL BE PERFORATED. OUTFALL PIPES PENETRATING THE LINER AND RUNNING THROUGH DIKE EMBANKMENT SHALL BE DOUBLE WALL HDPE PIPE 12" DIA DR11 CARRIER INSIDE 18" DIA DR17 CONTAINMENT HDPE PIPE.
6. PERFORATIONS SHALL BE AASHTO CLASS 1 PERFORATIONS – 3 ROWS OF PERFORATIONS REQ'D (A TOTAL OF 6 PER FT OF PIPE). EACH PERFORATION SHALL BE 0.4" DIA CIRCULAR AT 60 DEGREES OFF CENTERLINE OF BOTTOM OF PIPE.
7. FOR COMPOSITE LINER DETAIL FOR CELL NO. 1 AND CELL NO. 2 SEE SHEET H1C11015 AND H1C11015A.
8. SEE BASE GRADING PLAN SHEETS FOR GRADE ELEVATIONS, STORM STRUCTURE ELEVATIONS AND RISER STRUCTURE ELEVATIONS.
9. LATERAL PIPES SHALL NOT BE JOINTED AT THE GRADE BREAK RIDGES AND THE TRENCH SHALL BE A CONTINUOUS TRENCH AT THESE LOCATIONS.
10. ALL LINES SHOWN ARE THE CENTERLINE OF THE LATERAL OR HEADER TRENCH.

LEGEND:

- LCRS PIPES/HEADERS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- SLOPE PROTECTION

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11005 CELL NO. 1 SITE DEVELOPMENT BASE GRADE PLAN
H1C11007 CELL NO. 2 SITE DEVELOPMENT BASE GRADE PLAN
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS

GEORGIA REGISTERED No. 17082 PROFESSIONAL ENGINEER CLAUDIA M. MOELLER 11-12-18

GEORGIA REGISTERED NO. 27185 PROFESSIONAL 11/12/18 ENGINEER H. GRANT LANE

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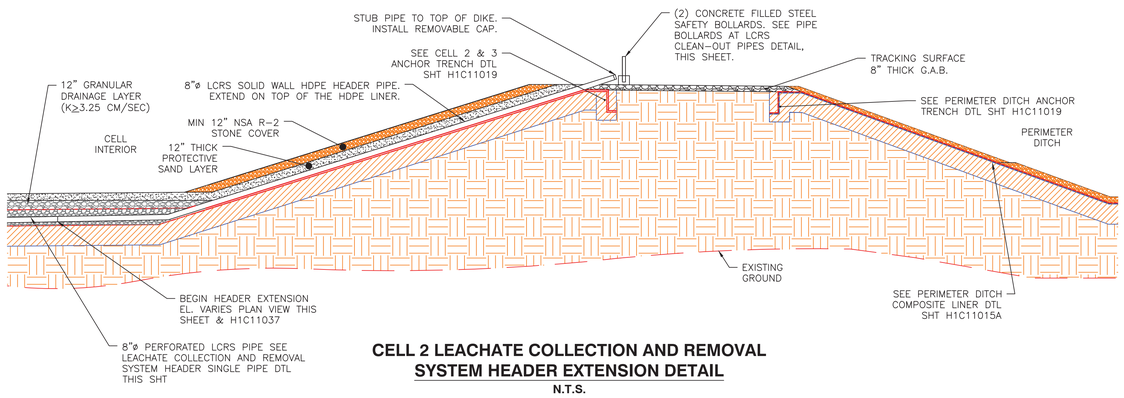
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
LEACHATE COLLECTION AND
REMOVAL SYSTEM LAYOUT

REVISION	DATE		BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
7	11–01–2018	CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.] NOTED EXISTING AND PROPOSED CELLS. REVISED LEACHATE LINES IN CELL NO. 2. UPDATED REFERENCES AND NOTES.	AMC	CMM	RBL				
6	7–31–14	ISSUED FOR MINOR MODIFICATION MWO: GPC381513	CRU	PMG	RCB				ELM
5	12–03–10	A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	EEJ	PMG	JAH				JBS
4	2–26–10	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	EEJ	PMG	JAH				JBS
3	11–25–09	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	ECO	PMG	JAH				JBS
2	7–24–09	A. GENERAL REVISION PER EPD REVIEW "REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	JWM	PMG	JAH				CKT
0	12–01–08	ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE	CRU	PMG	BDP				CKT

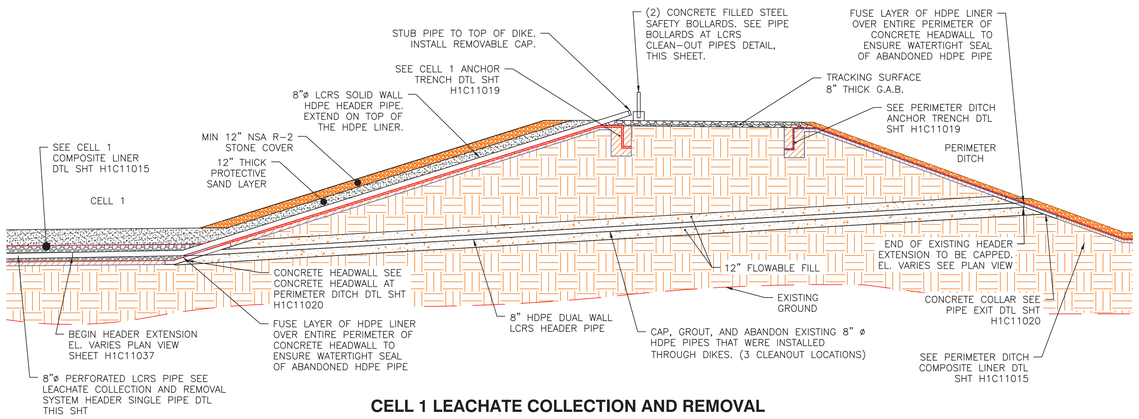
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11037	1	FINAL	7

ANSI F: 40x28 Acad2008



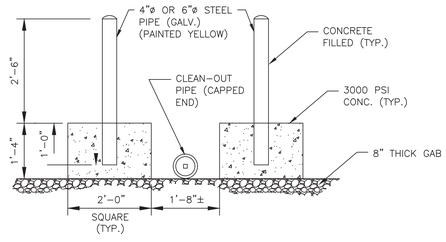
CELL 2 LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER EXTENSION DETAIL

N.T.S.



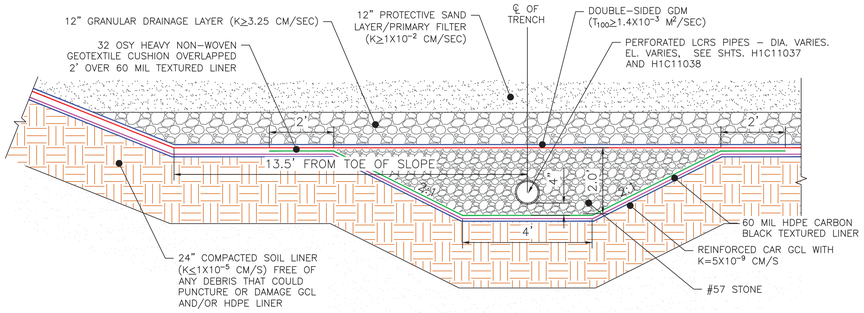
CELL 1 LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER EXTENSION DETAIL

N.T.S.



PIPE BOLLARDS AT LCRS CLEAN-OUT PIPES DETAIL

N.T.S.

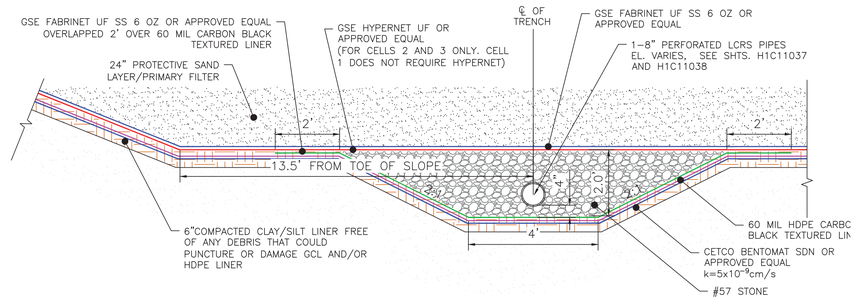


CELL 2

LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER SINGLE PIPE DETAIL

N.T.S.

NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).



CELL 1

LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER SINGLE PIPE DETAIL

N.T.S.

NOTES:

1. ALL PIPES ASSOCIATED WITH THE LEACHATE COLLECTION AND REMOVAL SYSTEM COLLECTION PIPES, HEADER PIPES, AND OUTFALL PIPES, SHALL BE SMOOTH WALL HDPE AND MAXIMUM RATED SDR-13.5. LATERAL AND HEADER PIPES SHALL BE PERFORATED. OUTFALL PIPES PENETRATING THE LINER AND RUNNING THROUGH DIKE EMBANKMENT SHALL BE DOUBLE WALL HDPE PIPE 8" DIA DR11 CARRIER INSIDE 14" DIA DR17 CONTAINMENT HDPE PIPE.
2. PERFORATIONS SHALL BE AASHTO CLASS 1 PERFORATIONS – 3 ROWS OF PERFORATIONS REQ'D (A TOTAL OF 6 PER FT OF PIPE). EACH PERFORATION SHALL BE 0.4" DIA CIRCULAR AT 60 DEGREES OFF CENTERLINE OF BOTTOM OF PIPE.
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.
4. FOR COMPOSITE LINER DETAIL FOR CELLS NO. 1 AND CELL NO. 2 SEE SHEET H1C11015 AND H1C11015A.

REFERENCES:

H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11020 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS, SHEET 3
H1C11037 CELL NO. 1 AND CELL NO. 2 LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 17882 11-12-18 CLAUDIA M. MICHELSEN

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER 11/2/18 R. BRANT LANE

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Southern Company Generation
Engineering and Construction Services
FOR

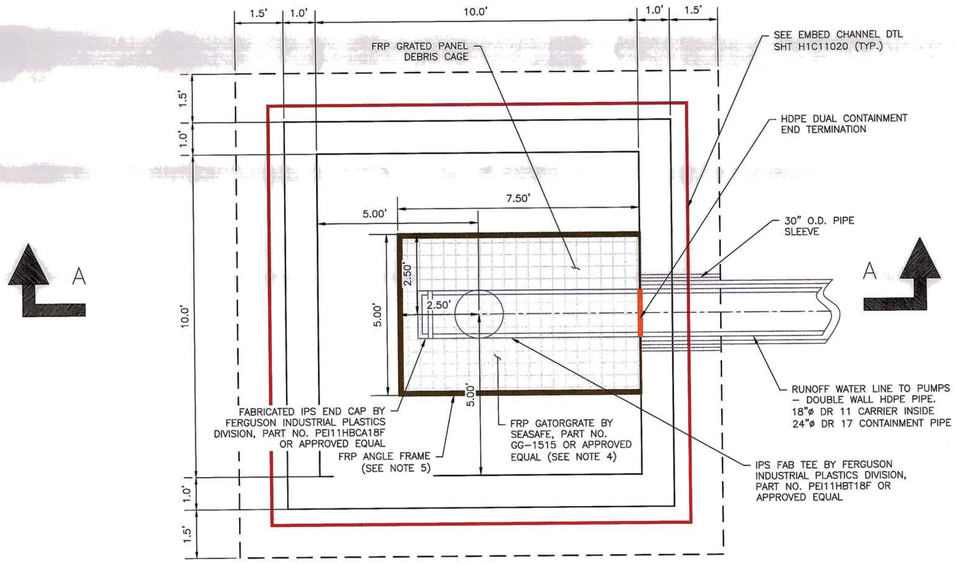
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
LEACHATE COLLECTION AND
REMOVAL SYSTEM DETAILS

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
6	11-01-2018	CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.] REVISED THICKNESS OF SOIL LINER FOR CELL 2. REMOVED CELL 3 LEACHATE COLLECTION AND REMOVAL SYSTEM AND DETAILS. REVISED LCRS DETAIL FOR CELL 2.	AMC	CMM	RBL				
5	12-03-10	A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 5 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	EEJ	PMG	JAH				JBS
4	2-26-10	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	EEJ	PMG	JAH				JBS
3	11-25-09	A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	ECO	PMG	JAH				JBS
2	7-24-09	A. GENERAL REVISION PER EPD REVIEW "REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	JWM	PMG	JAH				CKT
1	6-01-09	A. GENERAL REVISION PER EPD REVIEW "REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO: 3511DE	CRU	PMG	BDP				CKT
0	12-01-08	ISSUED FOR PERMIT "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH-07880 EWO:3511DE	CRU	PMG	BDP				CKT

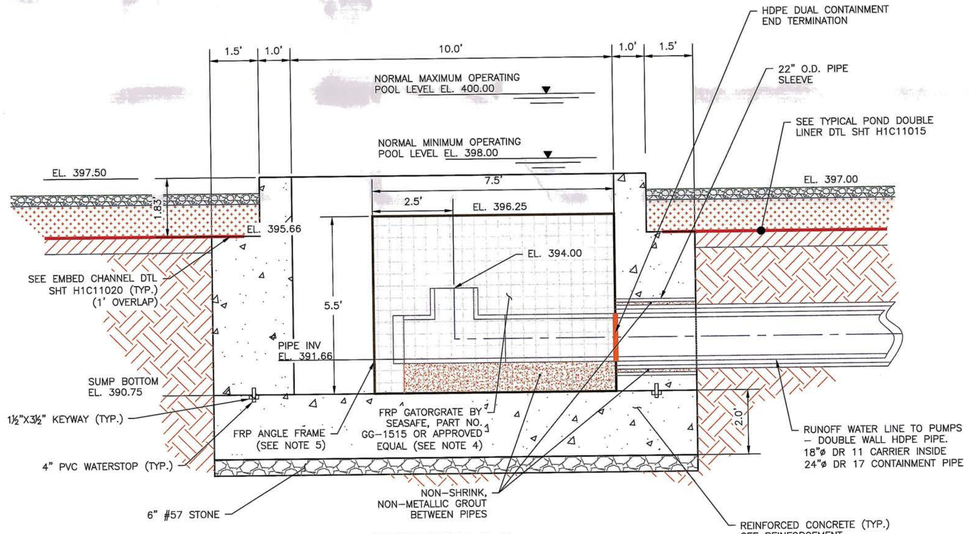
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	**H1C11038**	1	FINAL	6

ANSI F: 40x28 Acad2004



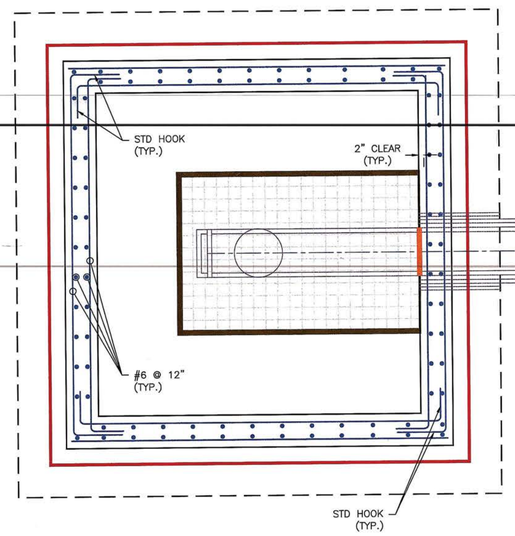
CLEAR POOL RETURN WATER INTAKE SUMP PLAN

1" = 2'



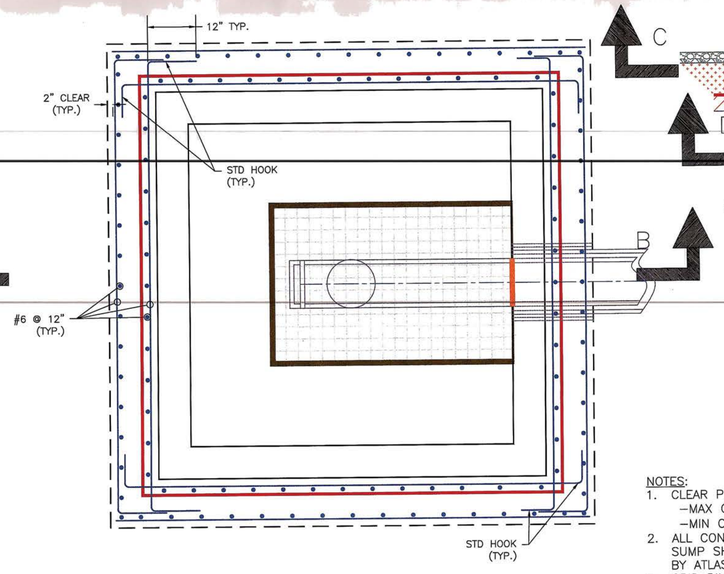
SECTION A-A

1" = 2'



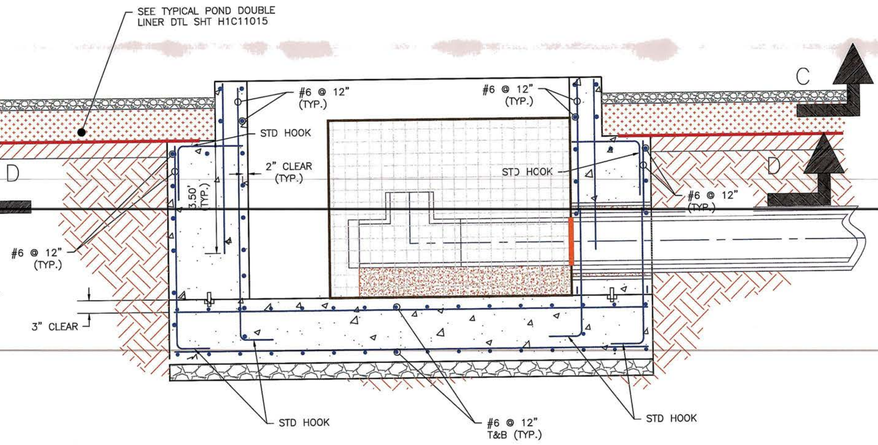
CLEAR POOL RETURN WATER INTAKE SUMP REINFORCEMENT PLAN C-C

1" = 2'



CLEAR POOL RETURN WATER INTAKE SUMP REINFORCEMENT PLAN D-D

1" = 2'



SECTION B-B

1" = 2'

NOTES:
1. CLEAR POOL OPERATING LEVELS
   –MAX OPERATING LEVEL 400.00 (PUMPS ON)
   –MIN OPERATING LEVEL 398.00 (PUMPS OFF)
2. ALL CONCRETE AND METAL USED IN RETURN WATER INTAKE SUMP SHALL BE COATED WITH CHEMPRUF 2410 LINING SYSTEM BY ATLAS MINERALS AND CHEMICALS, INC. OR APPROVED EQUAL
3. GRID DIMENSIONS FOR GATORGATE GG–1515 ARE:
   –1½" THICK, 1½"X1½" SQUARE GRID CENTERLINE TO CENTERLINE
   –BEARING BARS AND CROSS BARS ¼" THICK
   –OPEN, CLEAR DIMENSION OF ONE GRID – 1¼"X1¼"
4. DEBRIS CAGE FRAME TO BE CONSTRUCTED WITH FRP 2¼" ANGLES BY SEASAFE. GATORGRATE PANELS TO BE ATTACHED TO FRAME BY STAINLESS STEEL BOLTS AND HARDWARE BY SEASAFE.
5. DEBRIS CAGE TO BE FASTENED TO CONCRETE FLOOR BY STAINLESS STEEL BOLTS AND HARDWARE.

REFERENCES:
H1C11000 – TITLE SHEET AND DRAWING INDEX
H1C11015 – CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS SHEET 2
H1C11020 CELL NO. 1 THROUGH CELL. NO. 3 MISCELLANEOUS DETAILS SHEET 3

Waste Management Program
MODIFICATION APPROVAL
102-009 D(2)
CBH 4/12/11
MWH 5/3/11

GEORGIA REGISTERED ENGINEER GARY H. McWHORTER 5/4/10

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REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
2	12–03–10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
1	02–26–10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							
0	11–25–09	ECO	PMG	JAH				JBS
A. ISSUED FOR PERMIT MODIFICATION								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH–07880	EWO: 3511DE							

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3 CLEAR POOL RETURN WATER INTAKE AND SECTIONS

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CON'D	REV
AS NOTED	010505	H1C11041	1	FINAL	2

ANSI F: 40x28 Acad2004

PAC/ASH CELL

FINAL GRADE CONTOURS ARE TOP OF CLAY LINER SEE NOTE 1

GYPSUM STORAGE CELL 2 ROUGH GRADING AND BORROW AREA FOR CELL1 AND PAC/ASH CELL

GYPSUM STORAGE CELL 1

AREA CLEARED FOR 15' WIDE NORTH ACCESS ROAD. ROAD WAS NOT APPROVED FOR USE. THE CLEARED AREA TO BE REPLANTED WITH SIMILAR TREES AND VEGETATION. PLANT PINES, DOGWOODS, AND/OR OTHER APPROVED SPECIES AS NECESSARY.

STATE PLANE NAD83

WP ℄ 4' F.B. DITCH N 1120910.67 E 2409096.35 EL 447.22

WP ℄ 4' F.B. DITCH N 1120698.22 E 2408005.27 EL 434.56

WP ℄ 4' F.B. DITCH N 1120791.05 E 2408525.09 EL 450.36

WP ℄ 4' F.B. DITCH N 1120652.94 E 2407939.57 EL 447.59

PI STA:16+90.03 N 1120649.06 E 2407955.10

PI: 22+52.18

PI STA: 29+54.60 N 1120905.03 E 2409218.68 L=100.657 Δ=96.1204 R=60.0

PI: 29+88.48

N 1120626.96 E 2408053.56

N 1120787.71 E 2409132.9

N 1120761.78 E 2409123.84

PT: 17+24.26 L=93.149 Δ=88.9503 R=60.0

PC: 16+31.12

N 1120592.23 E 2408041.25

45' LONG x 30' WIDE CONCRETE WHEEL WASH PAD. SEE DETAIL SHEET H1C11048

N 1120578.99 E 2408119.76

N 1120563.15 E 2408013.32

N 1120528.69 E 2408077.94

N 1120505.97 E 2408174.03

N 1120567.8 E 2408079.04

N 1120406.63 E 2408118

PT: 14+31.43

PI STA:14+02.58 N 1120364.54 E 2408007.33 L=59.511 Δ=34.0971 R=100.0

PC: 14+71.95

N 1120410.29 E 2408098.97

N 1120220.25 E 2408286.42

N 1120232.01 E 2408289.91

END ℄ 16' ROAD N 1120125.23 E 2408535.41 EL 436.00

PI STA:10+58.80 N 1120115.87 E 2408251.70

BP: 0+00.00

PI: 11+03.14

PT: 10+85.15

PI: 0+72.98 L=57.557 Δ=54.9621 R=60.0

PI: 7+66.60

SEE PIPE CULVERT FROM SEDIMENTATION POINT TO CLEAR POOL SECTION SHT H1C11047

WP 36" ø HDPE PIPE N 1120072.48 E 2408590.33 EL 421.00

WP 36" ø HDPE PIPE N 1120057.52 E 2408500.56 EL 421.00

SEDIMENTATION POND

CLEAR POOL

LEAKAGE DETECTION SUMP SEE SHT H1C11049

PI STA:2+31.70 N 1119957.70 E 2408331.80 L=35.799 Δ=68.3704 R=30.0

RETURN WATER LINE FROM SUMP TO PAC/ASH CLEAR POOL SECTION SHT H1C11051

RETURN WATER LINE TO PUMP SECTION SHT H1C11051

PT: 2+47.12

WP ROCK DRAIN N 1119874.40 E 2408319.13

WP ROCK DRAIN N 1119885.65 E 2408398.35

WP ROCK DRAIN N 1119861.69 E 2408403.77

WP ROCK DRAIN N 1119806.45 E 2408409.59 EL 413

RETURN WATER PUMP AND ELECTRICAL CONTROL BUILDING

WP ROCK DRAIN N 1119795.20 E 2408330.38 SEE TYP SECTION SHT H1C11047

INSTALL VEHICULAR SWING GATE ALONG FENCE FOR ACCESS TO 16' ROAD

8' CHAIN LINK FENCE REQUIRED SEE DETAIL SHEET H1C11051

SEE ROCK DRAIN DETAIL SHT H1C11049

JURISDICTIONAL WETLAND AND STREAM BUFFER IMPACT (SEE NOTE 5)

WETLANDS

FINAL GRADE ELEVATIONS ARE TOP OF MARKER BED. SEE NOTE 2

GADOT TYPE-3 RIPRAP FILTER RING AROUND (3) 36" HDPE OUTLET PIPES. SEE PAC/ASH CELL CULVERT TO SEDIMENTATION POND SECTION SHT H1C11047 FOR DETAILS.

WP ℄ 36" ø HDPE PIPE (3) N 1120356.01 E 2409084.12 EL 435.27

MOUND NSA #3 STONE TO 12" ABOVE (3) 36" HDPE OUTLET PIPES. SEE PAC/ASH CELL CULVERT TO SEDIMENTATION POND SECTION SHT H1C11047 FOR DETAILS.

AT CELL CLOSURE, THE PORTION OF THE 36"ø HDPE PIPES (3) FROM THE INTERIOR OF THE CELL TO THE PERIMETER DITCH THAT IS LOCATED WITHIN THE PERIMETER DITCH SHALL BE CUT AND REMOVED. THE REMAINDER OF THE PIPE WITHIN THE INTERIOR DIKE SHALL BE GROUT FILLED AND ABANDONED.

WP ℄ 36" ø HDPE PIPE N 1120298.74 E 2409111.89 INV EL 434.96

WP ℄ 36" ø HDPE PIPE N 1120292.66 E 2409076.41 INV EL 434.96

SEE PAC/ASH CELL PERIMETER DITCH CULVERT TO SEDIMENTATION POND SECTION SHT H1C11047

SEE LCRS DETAILS SHT H1C11052 (TYP.)

WP ℄ 36" ø HDPE PIPE (1) N 1120220.21 E 2409124.95 INV EL 434.56

WP ℄ 36" ø HDPE PIPE (3) N 1120217.48 E 2409107.16 INV EL 434.56

WP ℄ 36" ø HDPE PIPE (1) N 1120214.75 E 2409089.37 INV EL 434.56

WP SPILLWAY ℄ N 1120062.32 E 2408844.01 EL 434.00

WP SPILLWAY ℄ N 1120028.00 E 2408849.74 EL 434.00

EMERGENCY SPILLWAY AT SEDIMENTATION POND SEE TYP SECTION SHT H1C11047

RECYCLEX TO TOE OF SLOPE

PAC/ASH CELL RUNOFF WATER LINE

PI STA:12+59.75 N 1120293.79 E 2409233.78

BP: 0+00.00

PT: 0+75.79

PI STA:0+43.66 N 1120285.17 E 2409264.30

PAC/ASH CELL RUNOFF WATER LINE

PI: 34+36.86

PC: 34+87.08 L=13.806 Δ=13.3103 R=59.4

EP: 35+00.89

WP ℄ 48" ø HDPE PIPE N 1120365.82 E 2409392.21 EL 413.93

PT: 12+90.74

PI: 13+04.91 L=75.794 Δ=71.1526 R=61.0

PC: 12+05.79 L=84.952 Δ=89.6395 R=54.3

(2) 237.30 LF 48" ø HDPE PIPE @ 2.4% GRADE SEE SHEET H1C11047 FOR DETAILS

WP ℄ 48" ø HDPE PIPE N 1120139.94 E 2409318.33 EL 408.32

PI STA:11+12.44 N 1120146.36 E 2409194.07

PAC/ASH CELL RUNOFF WATER LINE SEE PROTECTION BERM AT CROSSING OF RUNOFF WATER LINE FROM PAC/ASH CELL SECTION SHT H1C11047

L=69.416 Δ=53.0297 R=75.0

PI STA:9+01.82 N 1120070.64 E 2408997.34

PC: 8+76.45

PI STA:6+25.89 N 1120025.28 E 2408725.17

PI STA:5+37.06 N 1120008.71 E 2408637.89

WP ROCK DRAIN N 1119998.84 E 2408639.54

L=50.570 Δ=11.5897 R=250.0

PC: 10+75.02

PT: 11+44.44

WP ℄ 36" ø HDPE PIPE N 1120379.28 E 2409152.96 EL 435.84

N 1120370.12 E 2409164.69 EL 435.76

FINAL GRADE ARE TOP OF MARKER BED. SEE NOTE 2

H1C11046

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET) 1 inch = 60 ft.

PAC/ASH CELL ℄ PERIMETER ROAD STATIONING

Station	Northing	Easting	Elevation	Length	Grade
0+00.00	1120328.33	2409270.89	447.290'	75.794'	−0.66%
0+75.79	1120277.46	2409221.33	446.790'	58.032'	−0.52%
1+33.83	1120267.92	2409164.09	446.490'	242.562'	−0.52%
3+76.39	1120228.05	2408924.82	445.240'	390.212'	0.28%
7+66.60	1120163.90	2408539.92	446.348'	195.778'	0.28%
9+62.38	1120131.72	2408346.80	446.904'	65.211'	0.28%
10+27.59	1120121.00	2408282.48	447.089'	28.500'	0.26%
10+85.15	1120138.13	2408229.82	447.240'	17.997'	1.61%
11+03.14	1120150.97	2408217.21	447.531'	268.774'	1.61%
13+71.92	1120342.67	2408028.82	451.870'	59.511'	1.42%
14+31.43	1120394.71	2408001.79	452.715'	199.688'	1.61%
16+31.12	1120591.1	2407965.74	455.939'	23.300'	1.29%
17+24.26	1120660.75	2408012.84	456.180'	89.474'	−0.30%
22+52.18	1120765.57	2408530.24	454.596'	229.354'	−0.30%
28+87.82	1120891.77	2409153.23	452.689'	100.657'	−0.72%
29+88.48	1120838.54	2409224.89	451.963'	448.377'	−0.91%
34+36.86	1120342.10	2409271.22	447.897'	50.225'	−0.91%
34+87.08	1120342.10	2409271.22	447.441'	13.806'	−1.09%
35+00.89	1120328.33	2409270.89	447.290'		
=0+00.00					

PAC/ASH CELL ℄ POND ROAD STATIONING

0+00.00	1120119.13	2408234.45	446.872'	29.797'	−2.26%
0+29.80	1120093.62	2408249.84	446.200'	138.341'	−6.16%
1+68.14	1119975.15	2408321.28	437.671'	35.799'	−4.11%
2+03.94	1119961.05	2408351.90	436.200'	289.939'	0.00%
4+93.88	1120008.71	2408637.89	436.200'	88.831'	0.00%
5+82.71	1120025.28	2408725.17	436.240'	92.683'	0.00%
7+37.04	1120066.47	2408972.32	436.240'	96.242'	0.00%
8+33.28	1120079.75	2409021.02	436.240'	50.570'	0.00%
8+83.85	1120132.92	2409159.15	436.240'	148.004'	0.00%
10+31.86	1120182.34	2409204.33	436.240'	69.416'	6.30%
11+01.27	1120241.33	2409221.16	440.615'	61.346'	7.50%
11+62.62	1120241.33	2409221.16	445.217'	10.438'	7.50%
12+47.57	1120277.70	2409299.98	447.034'	14.174'	−2.14%
12+61.74	1120277.70	2409299.98	446.731'	268.119'	−2.17%
15+29.86	1120205.62	2409558.23	440.906'		

NOTES:

1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SIDE SLOPES OF THE PONDS ARE TOP OF CLAY LINER
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS
4. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
5. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
6. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
7. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- 25' STREAM AND WETLAND BUFFER
- FENCE
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND

- Sd1 SILT FENCE (SEE H1C11033)
- Di DIVERSION (SEE H1C11033)
- Lv LEVEL SPREADER (SEE H1C11033)
- Du DUST CONTROL
- Cd-s STONE CHECK DAM (2"–10" STONE)
- Sd3 TEMPORARY SEDIMENT BASIN

GEORGIA
Environmental Protection Division
Solid Waste Management Program

MINOR MODIFICATION APPROVAL

SOLID WASTE PERMIT NO. 102-009D(LI)

APPROVED BY: CH DATE: 11/3/11

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY H. McWHORTER

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11046 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11047 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11048 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTION

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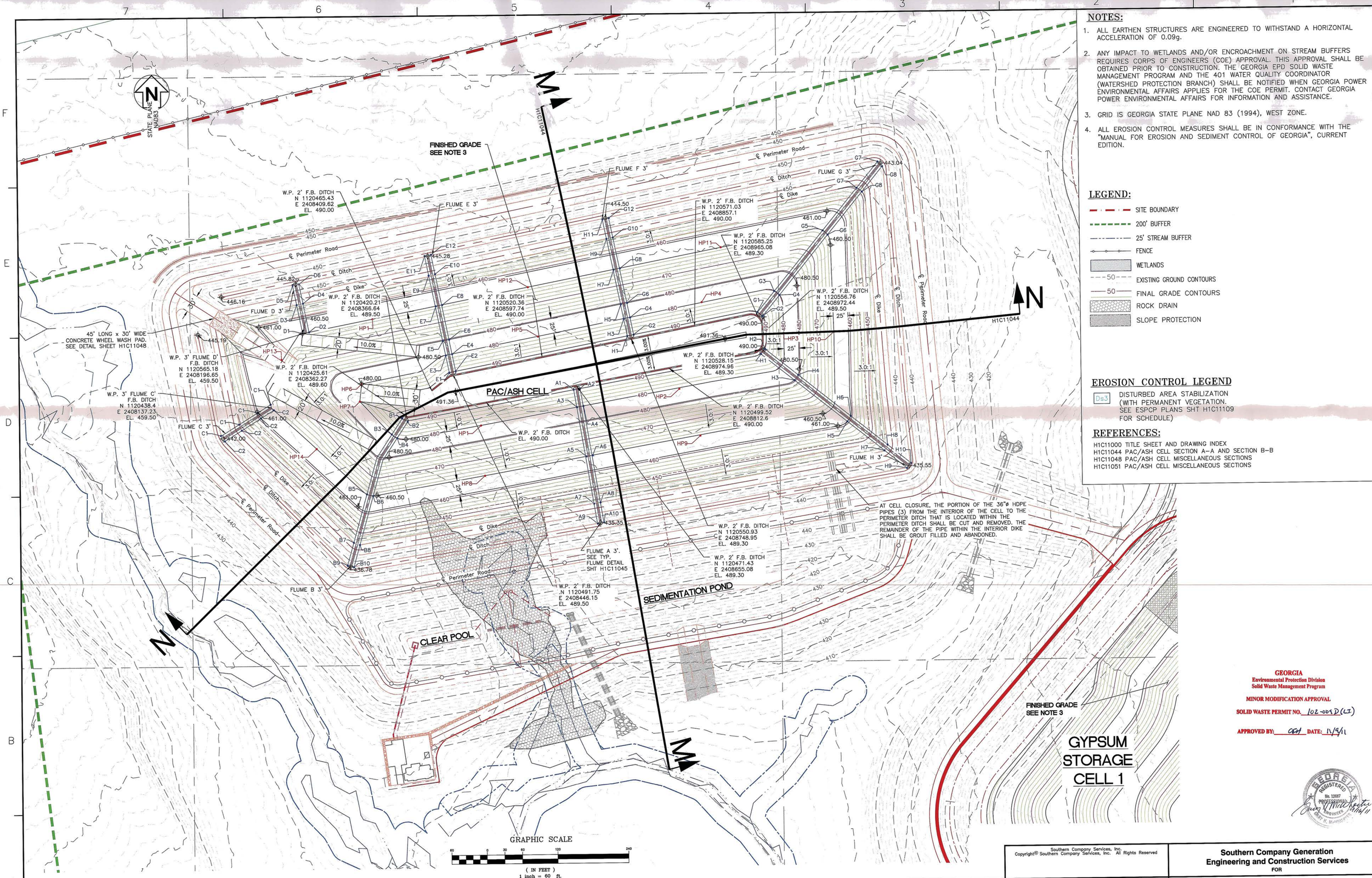
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL SITE DEVELOPMENT
BASE GRADING PLAN

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 4	09-02-11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 3	02-18-11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 2	12-03-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880 EWO: 3511DE								
REVISION 1	2-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO: 3201DE								
REVISION 0	11-25-09	EEJ	PMG	JAH				JBS
ISSUED FOR PERMIT MODIFICATION								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO: 3201DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=60'	010505	H1C11042	1	FINAL	4

ANSI F: 40x28 Acad2008



NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA", CURRENT EDITION.

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- 25' STREAM BUFFER
- FENCE
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION. SEE ESPCP PLANS SHT H1C11109 FOR SCHEDULE)

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11044 PAC/ASH CELL SECTION A-A AND SECTION B-B
H1C11048 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTIONS

GEORGIA
Environmental Protection Division
Solid Waste Management Program

MINOR MODIFICATION APPROVAL

SOLID WASTE PERMIT NO. 102-009D(LI)

APPROVED BY: CGH DATE: 11/9/11

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER Gary H. McWhorter

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION 4	DATE 09-02-11	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR MINOR MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							

REVISION 3	DATE 02-18-11	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR MINOR MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							

REVISION 2	DATE 12-03-10	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR MINOR MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07880	EWO: 3511DE							

REVISION 1	DATE 2-26-10	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR PERMIT MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO: 3201DE							

REVISION 0	DATE 11-25-09	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ISSUED FOR PERMIT MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO: 3201DE							

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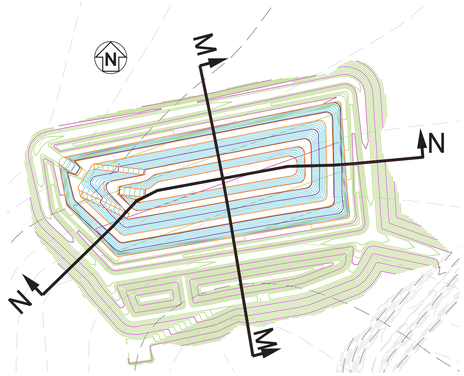
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
FINAL STACKING PLAN

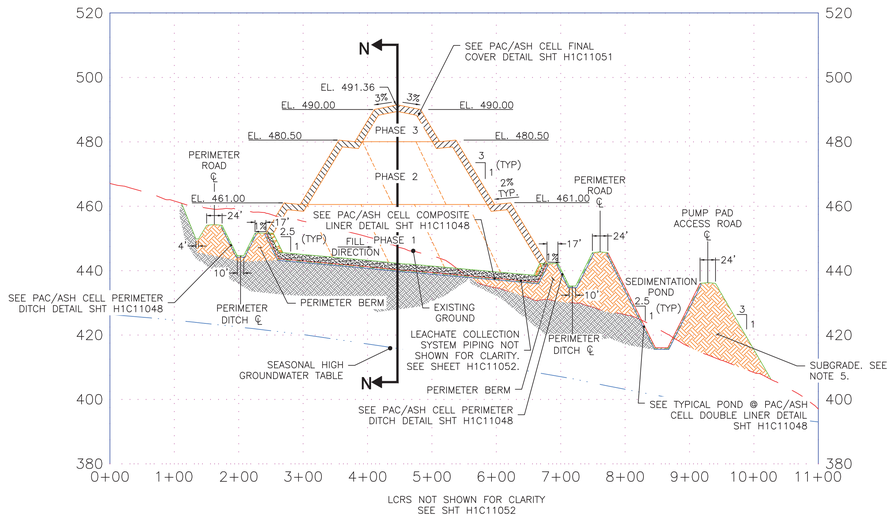
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=60'	010505	H1C11043	1	FINAL	4

ANSI F: 40x28 Acad2004



KEY PLAN

NOT TO SCALE



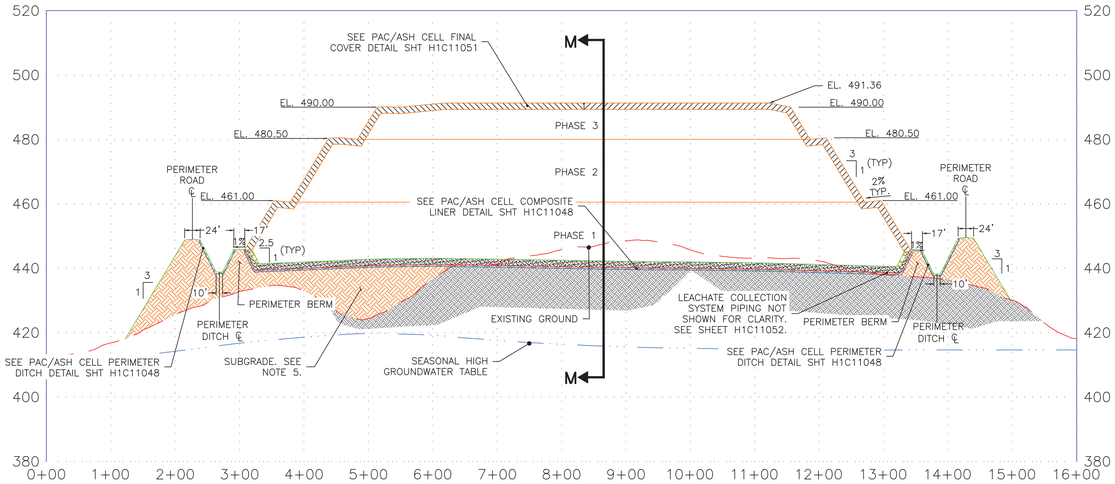
LCRS NOT SHOWN FOR CLARITY
SEE SHT H1C11052

PAC/ASH CELL SECTION M-M

SCALE H: 1"=100' V: 1"=20'
H1C11043

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
5. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.



LCRS NOT SHOWN FOR CLARITY
SEE SHT H1C11052

PAC/ASH CELL SECTION N-N

SCALE H: 1"=100' V: 1"=20'
H1C11043

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11048 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTIONS





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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
SECTION M-M AND SECTION N-N
PERIMETER DIKE THROUGH FINAL STACK

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 4	DATE 11-01-18	FS	CMM	RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								
REMOVED PAC/ASH FILLING AND OPERATION PLAN NOTES								
REVISION 3	DATE 02-18-11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07860 EWO: 3201DE								
REVISION 2	DATE 12-03-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07860 EWO: 3201DE								
REVISION 1	DATE 2-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07860 EWO: 3201DE								
REVISION 0	DATE 11-25-09	ECO	PMG	JAH				JBS
ISSUED FOR PERMIT MODIFICATION								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07860 EWO: 3201DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	**H1C11044**	1	FINAL	4

ANSI F: 40x28 Acad2004

PAC/ASH CELL

FLUME A			
POINT NO.	ELEVATION	NORTHING	EASTING
A1	490.00	1120464.50	2408650.68
A2	489.98	1120466.32	2408661.53
A3	480.00	1120434.91	2408656.03
A4	480.00	1120436.73	2408666.88
A5	460.50	1120351.26	2408671.15
A6	460.50	1120353.09	2408682.00
A7	445.39	1120270.96	2408683.58
A8	445.39	1120272.78	2408694.43
A9	445.39	1120236.93	2408689.30
A10	445.39	1120238.75	2408700.14

FLUME B			
POINT NO.	ELEVATION	NORTHING	EASTING
B1	490.01	1120418.88	2408359.09
B2	489.21	1120412.71	2408368.27
B3	480.01	1120391.57	2408341.06
B4	480.12	1120385.40	2408350.24
B5	460.52	1120290.16	2408297.95
B6	460.51	1120287.22	2408308.35
B7	445.39	1120208.30	2408274.87
B8	0.00	1120204.42	2408285.18
B9	890.78	1120169.65	2408263.97
B10	445.39	1120166.57	2408274.56

FLUME C			
POINT NO.	ELEVATION	NORTHING	EASTING
C1	460.50	1120443.99	2408135.81
C2	460.50	1120434.39	2408141.20
C3	472.15	1120410.63	2408082.14
C4	461.00	1120400.36	2408086.46
C5	11.15	1120391.85	2408050.89
C6	461.00	1120382.31	2408057.43

FLUME D			
POINT NO.	ELEVATION	NORTHING	EASTING
D1	460.50	1120564.13	2408191.26
D2	460.50	1120566.24	2408202.05
D3	452.86	1120612.54	2408181.39
D4	452.84	1120614.74	2408192.17
D5	501.15	1120645.60	2408174.93
D6	55.11	1120647.79	2408185.71

FLUME E			
POINT NO.	ELEVATION	NORTHING	EASTING
E1	489.88	1120495.55	2408439.76
E2	489.99	1120497.75	2408450.54
E3	480.12	1120524.67	2408434.06
E4	480.10	1120526.87	2408444.84
E5	460.62	1120608.09	2408417.73
E6	460.60	1120610.28	2408428.50
E7	486.04	1120660.47	2408406.16
E8	40.00	1120662.66	2408416.94
E9	530.65	1120693.52	2408399.70
E10	84.61	1120695.72	2408410.48

FLUME F			
POINT NO.	ELEVATION	NORTHING	EASTING
F1	490.00	1120554.88	2408742.53
F2	489.99	1120557.03	2408753.32
F3	480.12	1120583.96	2408736.84
F4	480.10	1120586.15	2408747.62
F5	460.62	1120667.37	2408720.51
F6	460.60	1120669.57	2408731.28
F7	451.58	1120719.75	2408708.94
F8	451.55	1120721.95	2408719.72
F9	530.65	1120752.80	2408702.48
F10	84.61	1120755.00	2408713.26

FLUME G			
POINT NO.	ELEVATION	NORTHING	EASTING
G1	489.88	1120593.24	2408963.87
G2	489.83	1120586.40	2408973.07
G3	480.00	1120628.58	2408992.70
G4	480.00	1120621.71	2409001.87
G5	460.51	1120730.43	2409076.38
G6	460.50	1120723.16	2409084.68
G7	0.00	1120802.20	2409134.94
G8	−445.39	1120795.63	2409143.78
G9	0.00	1120846.47	2409171.05
G10	−445.39	1120838.46	2409178.71

FLUME H			
POINT NO.	ELEVATION	NORTHING	EASTING
H1	489.62	1120521.99	2408969.42
H2	489.78	1120530.59	2408976.27
H3	480.02	1120497.69	2408999.91
H4	480.01	1120506.38	2409006.65
H5	460.51	1120427.55	2409087.92
H6	460.50	1120437.26	2409093.39
H7	0.00	1120356.27	2409179.16
H8	−445.39	1120366.15	2409182.62
H9	445.39	1120325.94	2409215.40
H10	0.00	1120334.55	2409222.26

BENCH			
POINT NO.	ELEVATION	NORTHING	EASTING
HP1	480.40	1120405.31	2408492.83
HP2	480.40	1120464.41	2408830.31
HP3	480.35	1120556.71	2409008.53
HP4	480.31	1120610.88	2408869.37
HP5	480.38	1120555.41	2408590.84
HP6	480.20	1120477.64	2408290.66
HP7	480.20	1120447.85	2408287.43
HP8	460.93	1120320.09	2408498.89
HP9	460.98	1120384.64	2408865.10
HP10	460.80	1120558.61	2409093.51
HP11	460.93	1120703.69	2408902.92
HP12	460.88	1120639.15	2408574.44
HP13	460.78	1120587.16	2408309.89
HP14	460.65	1120519.68	2408155.14
HP15	460.75	1120367.94	2408213.31

Accepted Protection for Waste Management Program
NRC PERMIT MODIFICATION APPROVAL
102-109 D(12)
CRK 4/14/11
MMM 5/2/11

GEORGIA REGISTERED No. 12687 ENGINEER Gary H. McWhorter 12/16/10

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
FLUME DATA SHEET
SHEET 1

REVISION	DATE
0	11-25-09

ISSUED FOR PERMIT MODIFICATION

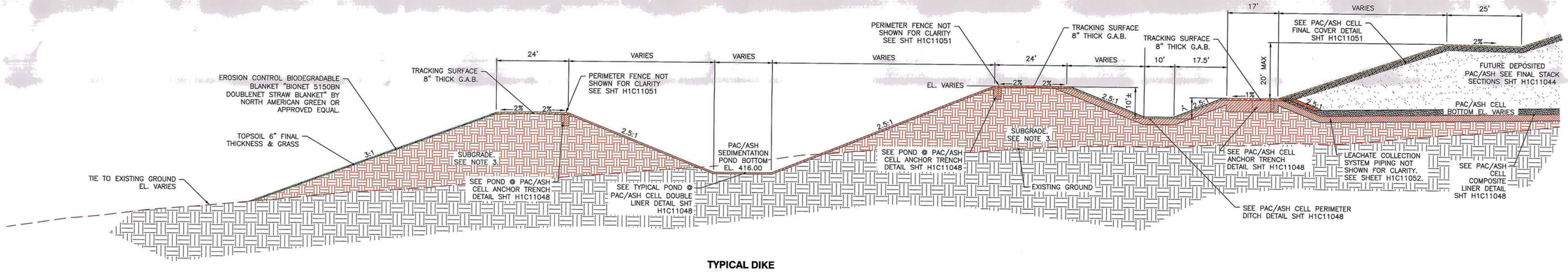
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."

REA:SH-07860 EWO: 3201DE

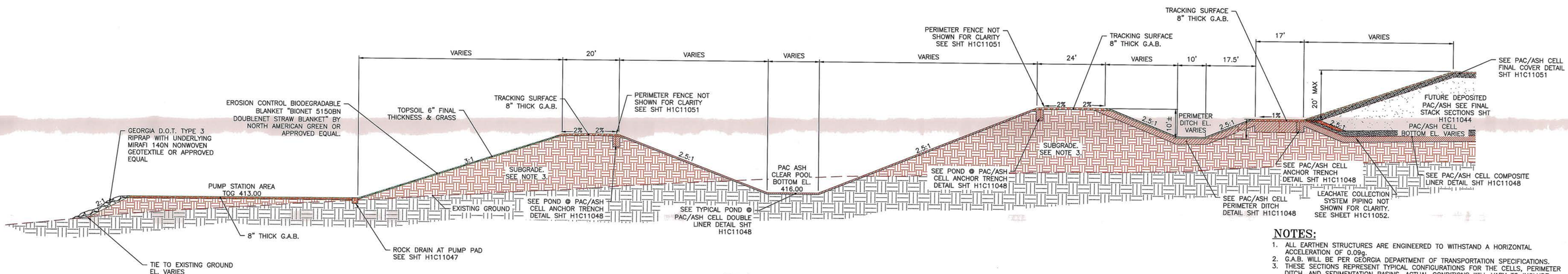
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
EEJ	PMG	JAH				JBS

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11045	1	FINAL	0

ANSI F: 40x28 Acad2004



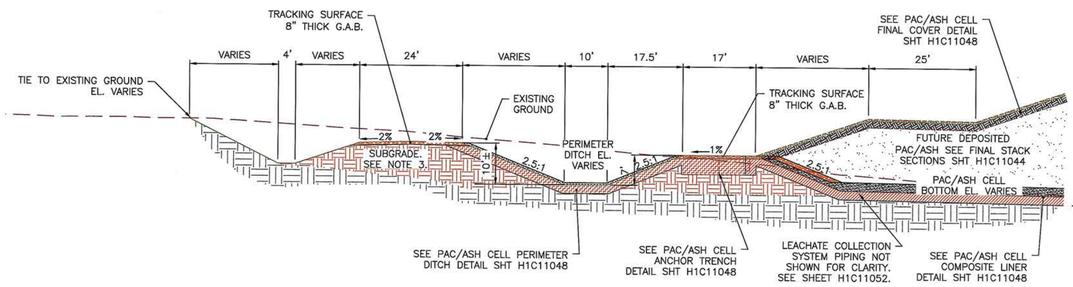
TYPICAL DIKE SECTION O-O
N.T.S.
H1C11042



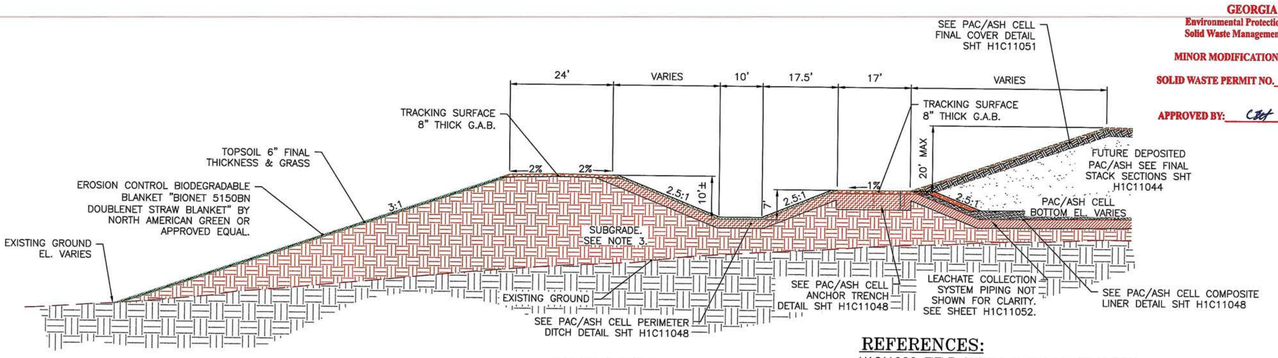
TYPICAL DIKE SECTION P-P
N.T.S.
H1C11042

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.



TYPICAL DIKE SECTION Q-Q
N.T.S.
H1C11042



TYPICAL DIKE SECTION R-R
N.T.S.
H1C11042

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11044 PAC/ASH CELL SECTION M-M AND SECTION N-N PERIMETER DIKE THROUGH FINAL STACK
H1C11048 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTIONS

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 102-005D(SL)
APPROVED BY: [signature] DATE: 11/2/11

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER Gary H. McWhorter

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REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION 4	DATE 09-02-11	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR MINOR MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07860	EWO: 3201DE							

REVISION 3	DATE 02-18-11	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR MINOR MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07860	EWO: 3201DE							

REVISION 2	DATE 12-03-10	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR MINOR MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07860	EWO: 3201DE							

REVISION 1	DATE 02-26-10	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR PERMIT MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07860	EWO: 3201DE							

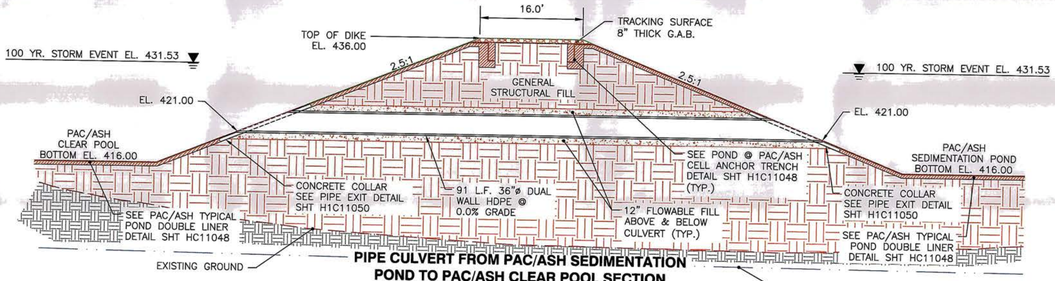
REVISION 0	DATE 11-25-09	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ISSUED FOR PERMIT MODIFICATION		ECO	PMG	JAH				JBS
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA:SH-07860	EWO: 3201DE							

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

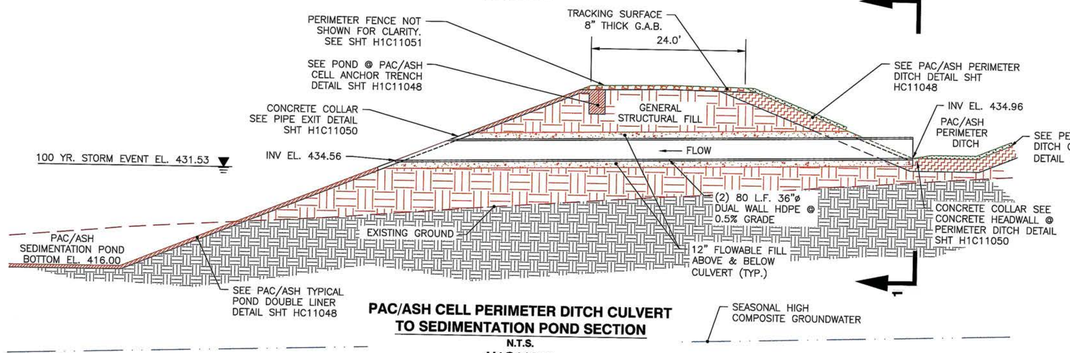
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC ASH CELL
MISCELLANEOUS SECTIONS
SHEET 1

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11046	1	FINAL	4

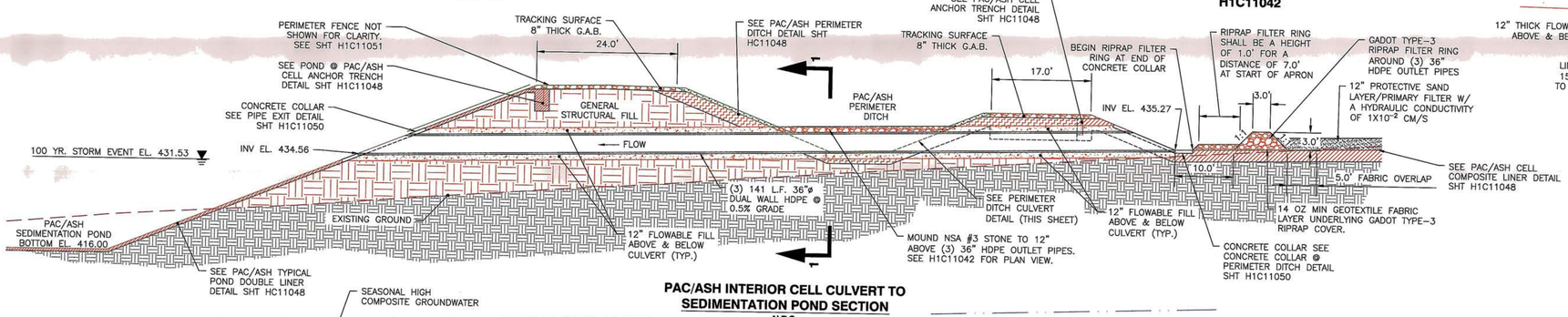
ANSI F: 40x28 Acad2004



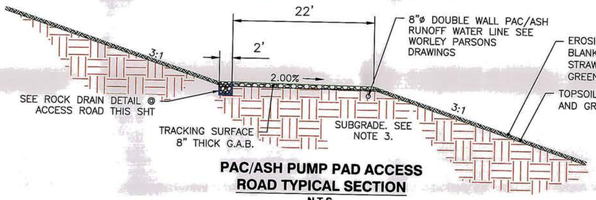
PIPE CULVERT FROM PAC/ASH SEDIMENTATION POND TO PAC/ASH CLEAR POOL SECTION
N.T.S.
H1C11042



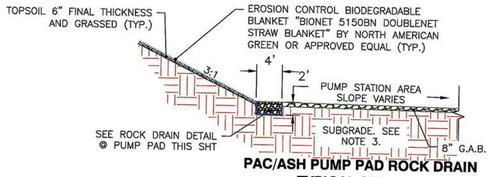
PAC/ASH CELL PERIMETER DITCH CULVERT TO SEDIMENTATION POND SECTION
N.T.S.
H1C11042



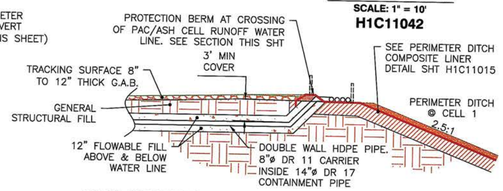
PAC/ASH INTERIOR CELL CULVERT TO SEDIMENTATION POND SECTION
N.T.S.
H1C11042



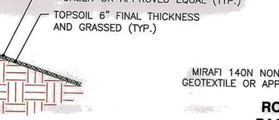
PAC/ASH PUMP PAD ACCESS ROAD TYPICAL SECTION
N.T.S.
H1C11042



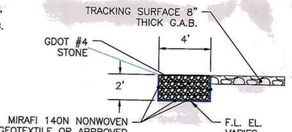
PAC/ASH PUMP PAD ROCK DRAIN TYPICAL SECTION
SCALE: 1" = 10'
H1C11042



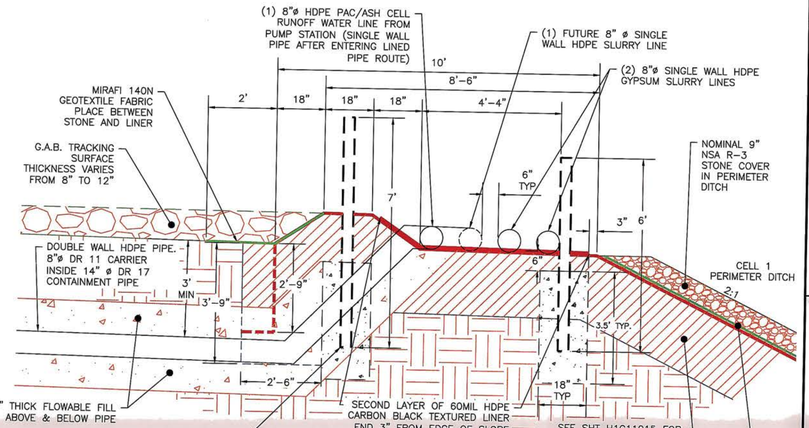
ROAD CROSSING OF PAC/ASH CELL RUNOFF WATER LINE FROM PAC/ASH CELL PUMP STATION SECTION
N.T.S.
H1C11042



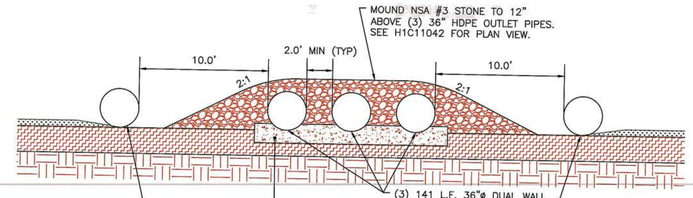
ROCK DRAIN DETAIL @ PAC/ASH ACCESS ROAD
N.T.S.



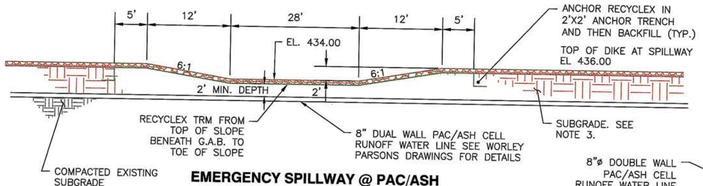
ROCK DRAIN DETAIL @ PAC/ASH PUMP PAD
N.T.S.



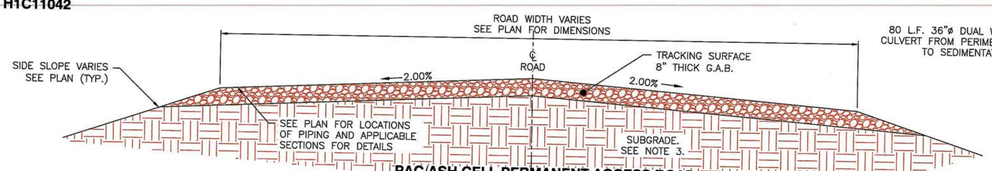
SPILL PROTECTION BERM AT CROSSING OF RUNOFF WATER LINE FROM PAC/ASH CELL TYPICAL SECTION
N.T.S.
H1C11042



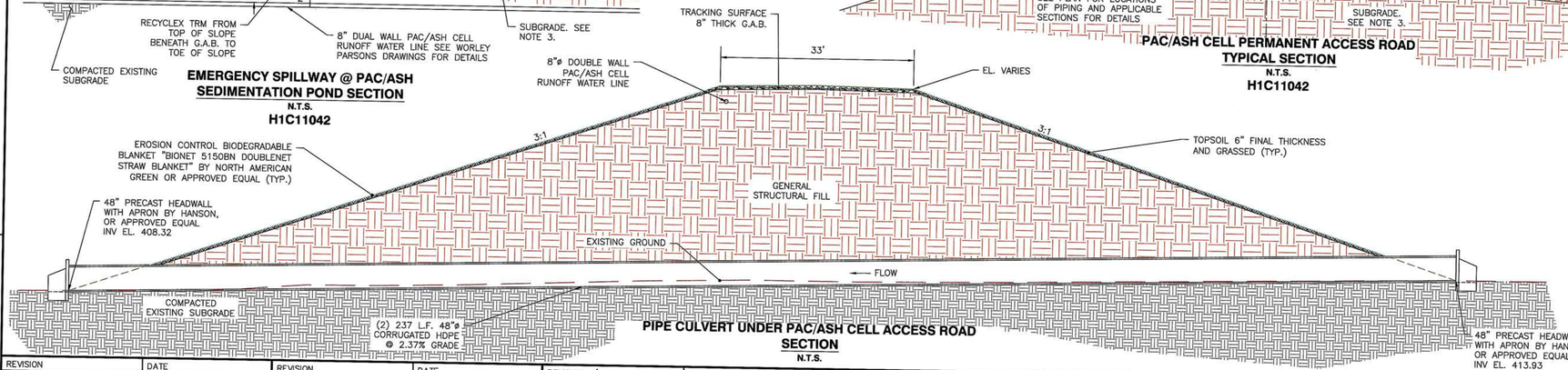
CULVERTS IN PERMETER DITCH SECTION 1-1
N.T.S.



EMERGENCY SPILLWAY @ PAC/ASH SEDIMENTATION POND SECTION
N.T.S.
H1C11042



PAC/ASH CELL PERMANENT ACCESS ROAD TYPICAL SECTION
N.T.S.
H1C11042



PIPE CULVERT UNDER PAC/ASH CELL ACCESS ROAD SECTION
N.T.S.

GEORGIA
Environmental Protection Division
Solid Waste Management Program

MINOR MODIFICATION APPROVAL

SOLID WASTE PERMIT NO. 102-009D(L3)

APPROVED BY: CEH DATE: 11/9/11

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11015 CELL NO.1 THOUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11048 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11050 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTIONS

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY H. McWHORTER

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION 4	DATE 09-02-11	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR MINOR MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO:3201DE							

REVISION 3	DATE 02-18-11	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR MINOR MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO:3201DE							

REVISION 2	DATE 12-03-10	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR MINOR MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO:3201DE							

REVISION 1	DATE 02-26-10	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
A. GENERAL REVISION FOR PERMIT MODIFICATION		EEJ	PMG	JAH				JBS
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO:3201DE							

REVISION 0	DATE 11-25-09	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ISSUED FOR PERMIT MODIFICATION		ECO	PMG	JAH				JBS
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO:3201DE							

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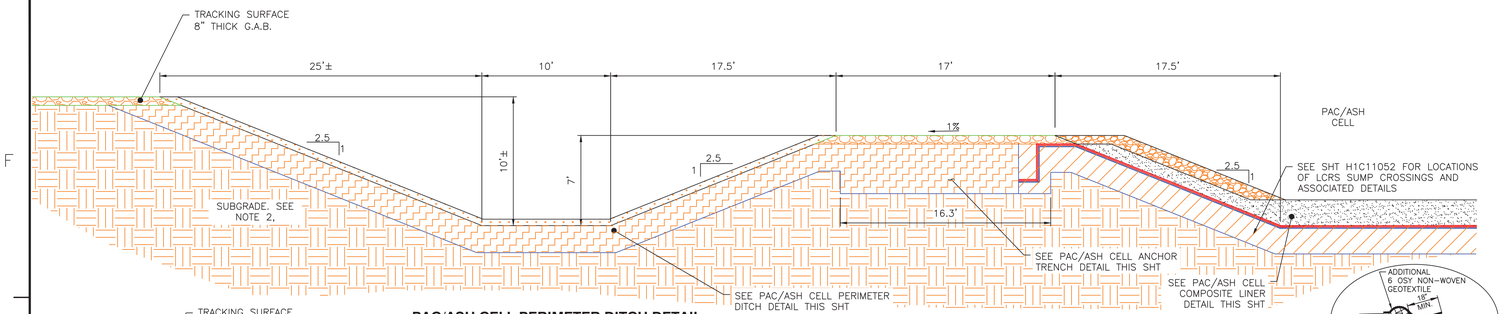
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

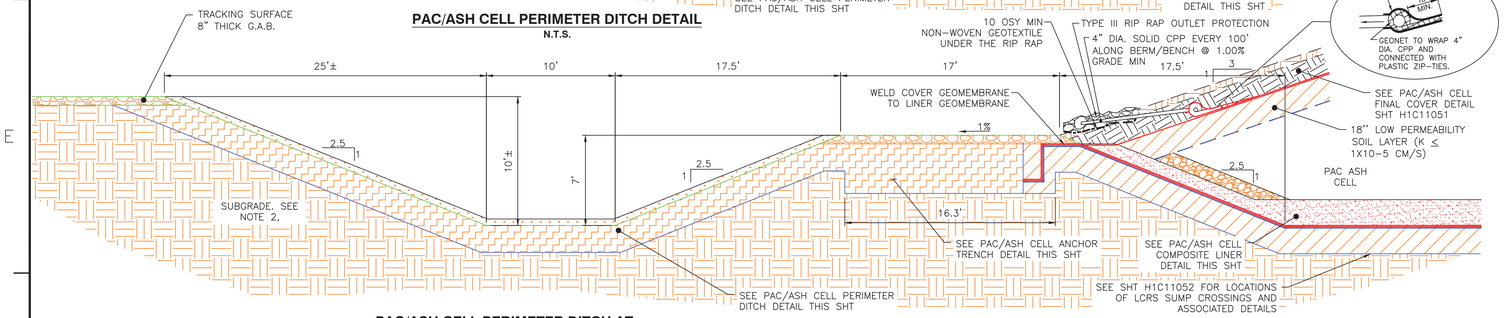
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS
SHEET 2

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11047		FINAL	4

ANSI F: 40x28 Acad2004



PAC/ASH CELL PERIMETER DITCH DETAIL
N.T.S.



PAC/ASH CELL PERIMETER DITCH AT CLOSURE DETAIL
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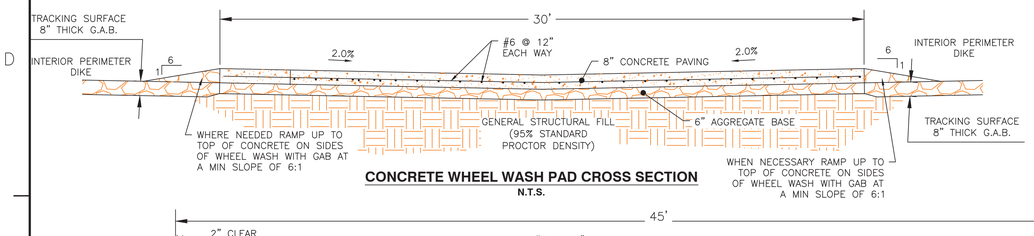

CONCRETE WHEEL WASH PAD CROSS SECTION
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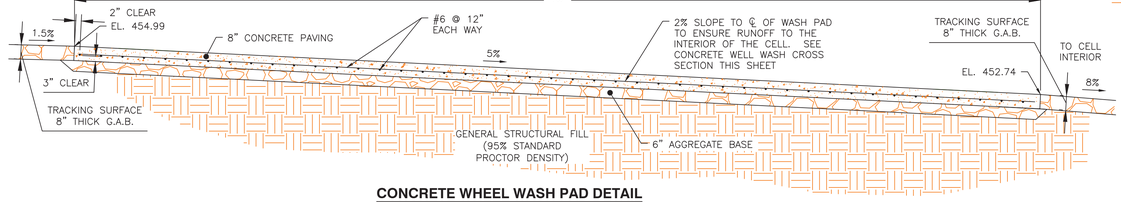
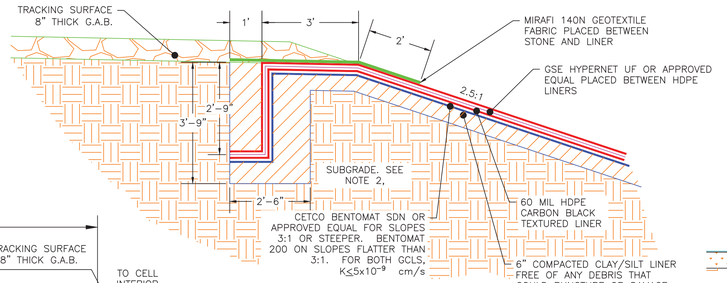
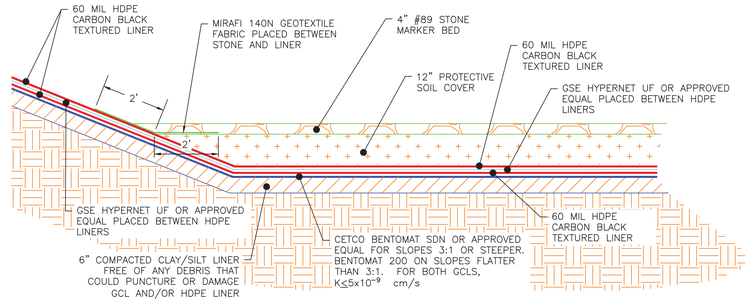


CONCRETE WHEEL WASH PAD DETAIL
N.T.S.



POND @ PAC/ASH CELL ANCHOR TRENCH DETAIL
N.T.S.
H1C11044, H1C11046, H1C11047, H1C11053



TYPICAL POND @ PAC/ASH CELL DOUBLE LINER DETAIL
N.T.S.
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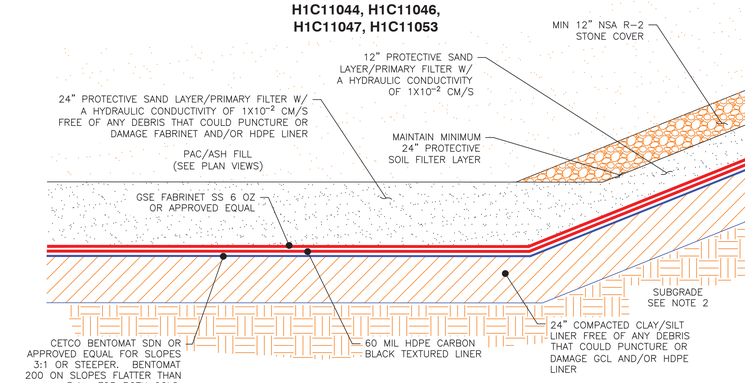

PAC/ASH CELL COMPOSITE LINER DETAIL
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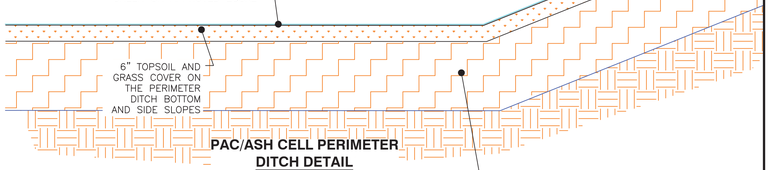

PAC/ASH CELL PERIMETER DITCH DETAIL
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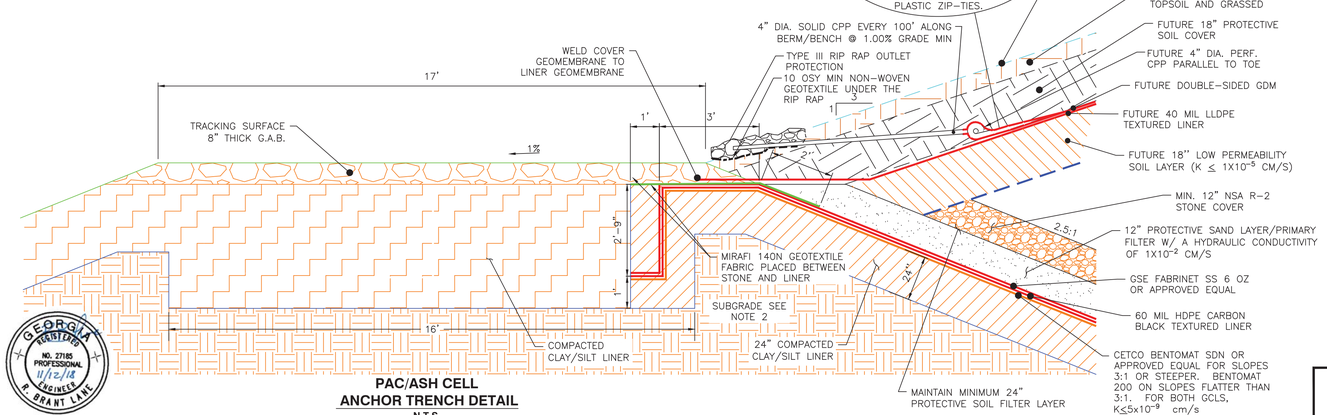

PAC/ASH CELL ANCHOR TRENCH DETAIL
N.T.S.

NOTES:

1. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11052 PAC/ASH CELL LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT SHEET 1

GEORGIA REGISTERED No. 17985 PROFESSIONAL ENGINEER 11-12-18 CLAUDIA M. MOELLER

GEORGIA REGISTERED No. 27185 PROFESSIONAL 11/12/18 ENGINEER K. BRANT LANE

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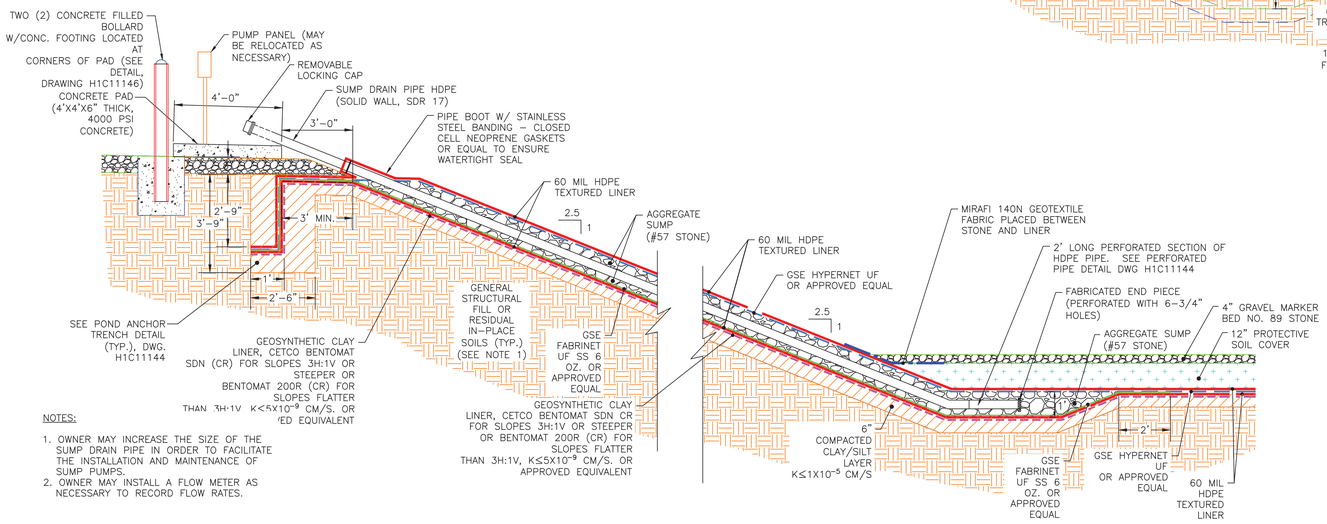
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS
SHEET 3

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 5	11-01-2018	AMC	CMM	RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								
REPLACED COVER GCL WITH 18" OF LOW PERMEABILITY SOIL LAYER. REVISED FINAL COVER ANCHOR TRENCH DETAIL.								
REVISION 4	09-02-11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								
REVISION 3	02-18-11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								
REVISION 2	12-03-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								
REVISION 1	02-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								
REVISION 0	11-25-09	ECO	PMG	JAH				JBS
ISSUED FOR PERMIT MODIFICATION								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11048	1	FINAL	5

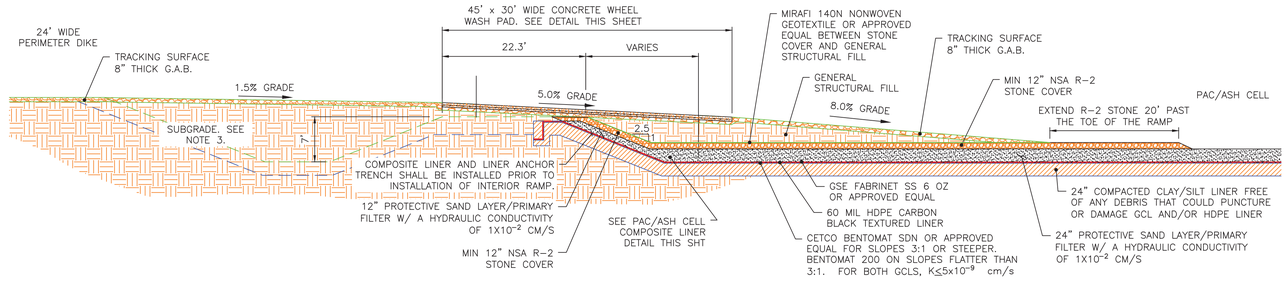
ANSI F: 40x28 Acad2004



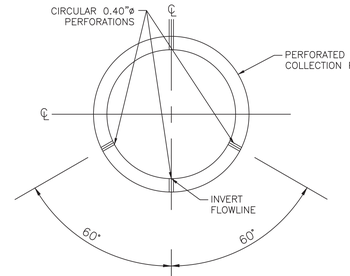
NOTES:

1. OWNER MAY INCREASE THE SIZE OF THE SUMP DRAIN PIPE IN ORDER TO FACILITATE THE INSTALLATION AND MAINTENANCE OF SUMP PUMPS.
2. OWNER MAY INSTALL A FLOW METER AS NECESSARY TO RECORD FLOW RATES.

TYPICAL LEAKAGE DETECTION SUMP DETAIL
N.T.S.
(H1C11042)

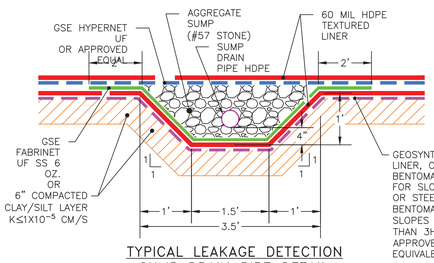


PAC/ASH CELL INTERIOR RAMP PROFILE
N.T.S.

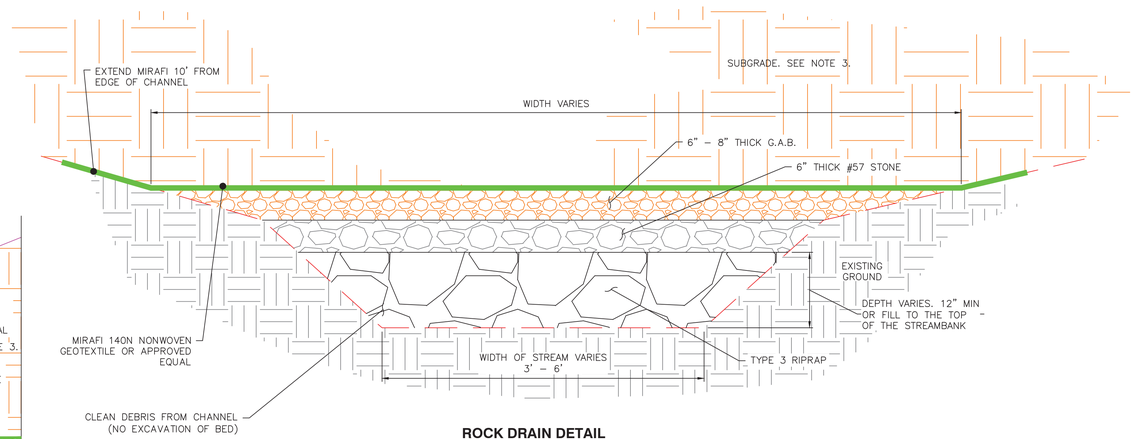


NOTE: AASHTO CLASS I PERFORATION FOR 6"ø PIPE-6 ROWS OF PERFORATIONS REQ'D PER FT-OF-PIPE (18 PER LF OF PIPE OR 36 TOTAL FOR 2' LONG PERFORATED SECTION)

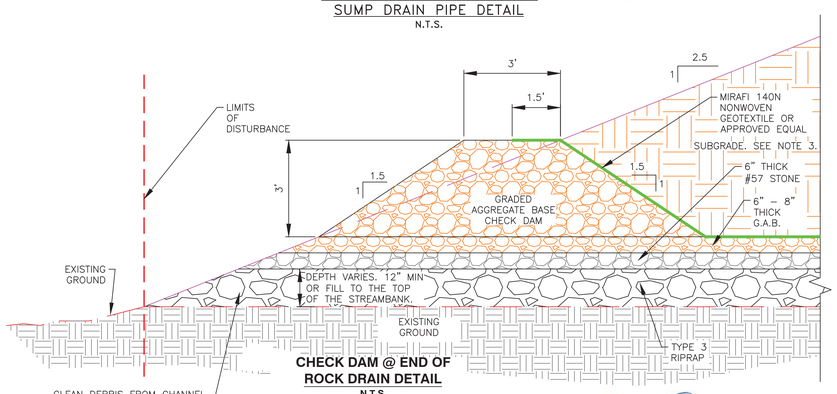
PERFORATED PIPE DETAIL
N.T.S.



TYPICAL LEAKAGE DETECTION SUMP DRAIN PIPE DETAIL
N.T.S.



ROCK DRAIN DETAIL



CHECK DAM @ END OF ROCK DRAIN DETAIL
N.T.S.
H1C11042

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

GEORGIA REGISTERED No. 17805 PROFESSIONAL ENGINEER CLAUDIA M. MOELLER 11-12-18

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER R. BRANT LANE

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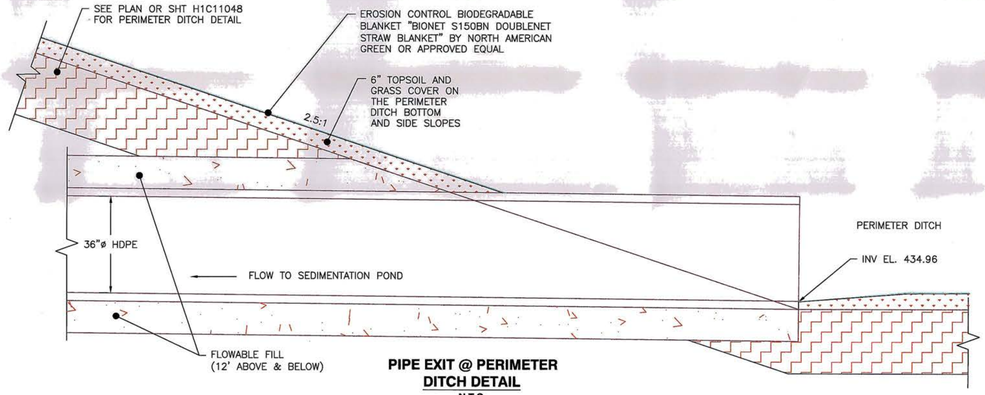
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS
SHEET 4

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 4	DATE 11-01-2018	AMC	CMM	RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								
ADDED END PIECE TO SUMP DRAIN PIPE. ADDED NOTES 1 & 2. ADDED PUMP PANEL TO TYPICAL LEAKAGE DETECTION SUMP DETAIL.								
REVISION 3	DATE 09-02-11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								
REVISION 2	DATE 12-03-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								
REVISION 1	DATE 02-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								
REVISION 0	DATE 11-25-09	ECO	PMG	JAH				JBS
ISSUED FOR PERMIT MODIFICATION								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11049	1	FINAL	4

ANSI F: 40x28 Acad2004



PIPE EXIT @ PERIMETER DITCH DETAIL
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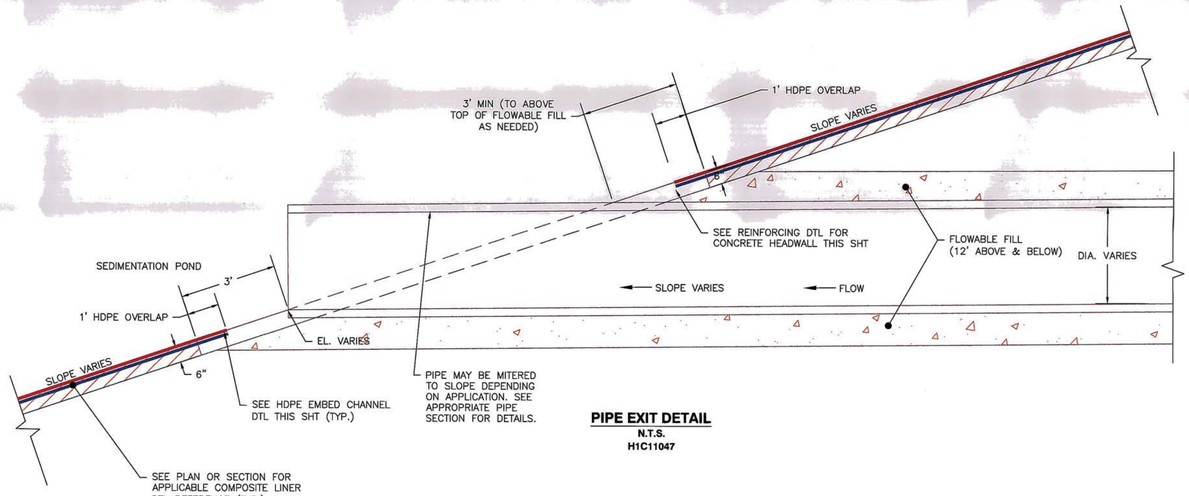
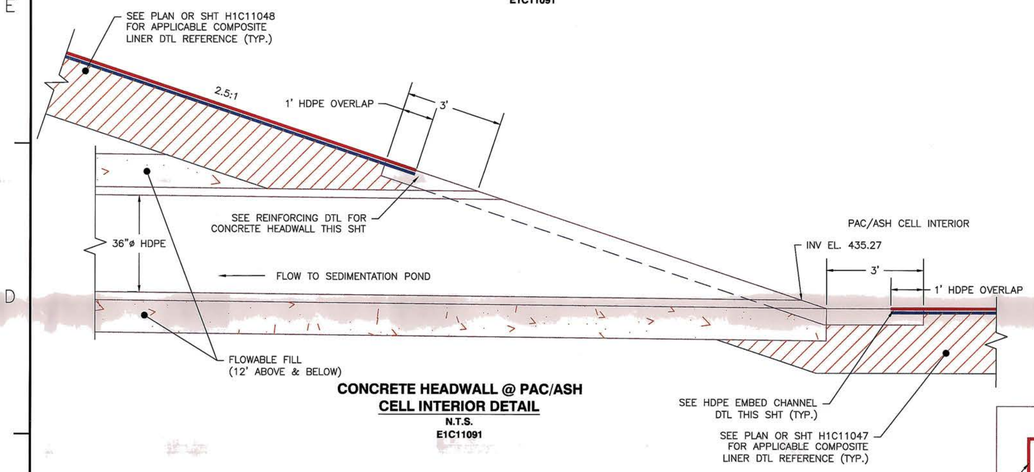


PIPE EXIT DETAIL
N.T.S.
H1C11047



CONCRETE HEADWALL @ PAC/ASH CELL INTERIOR DETAIL
N.T.S.
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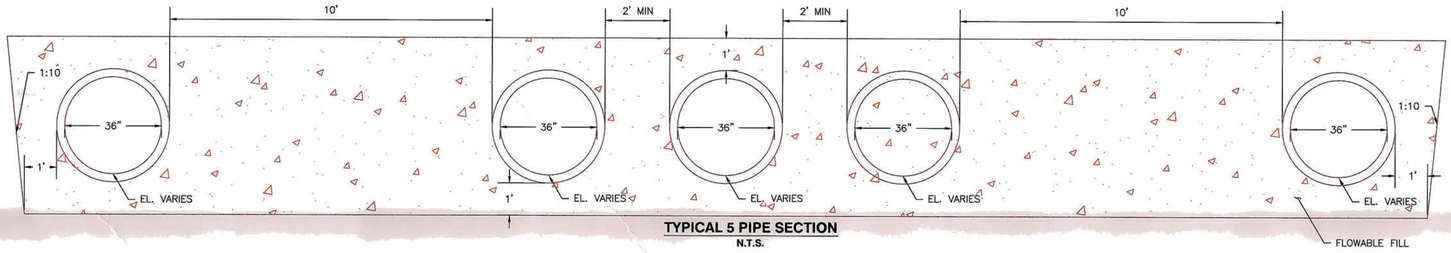
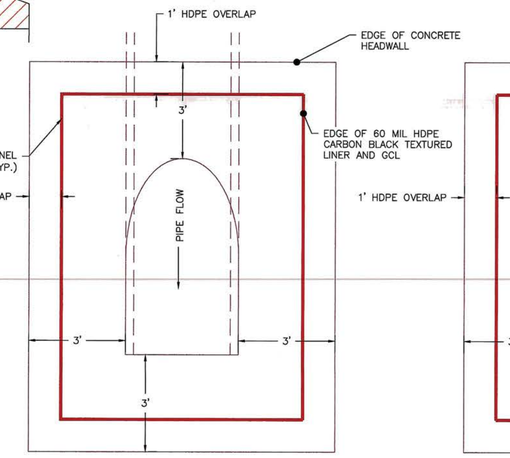
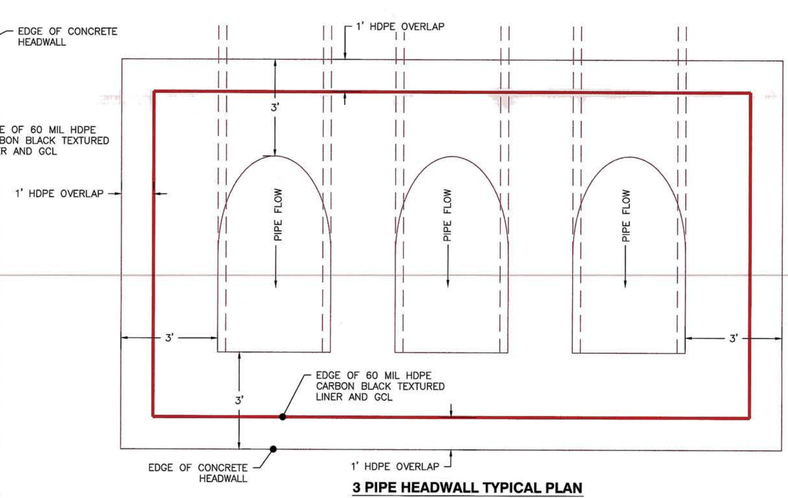


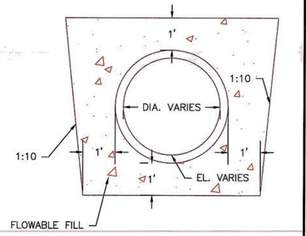
TYPICAL 5 PIPE SECTION
N.T.S.



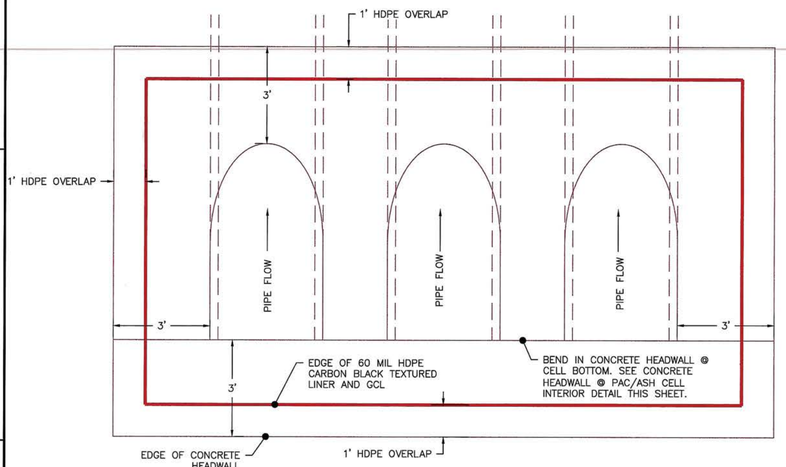
SINGLE PIPE HEADWALL TYPICAL PLAN @ SEDIMENTATION POND ONLY (2 LOCATIONS)
N.T.S.



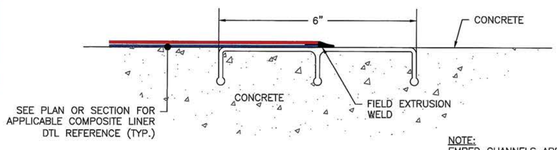
3 PIPE HEADWALL TYPICAL PLAN @ SEDIMENTATION POND
N.T.S.



TYPICAL SINGLE PIPE SECTION
N.T.S.



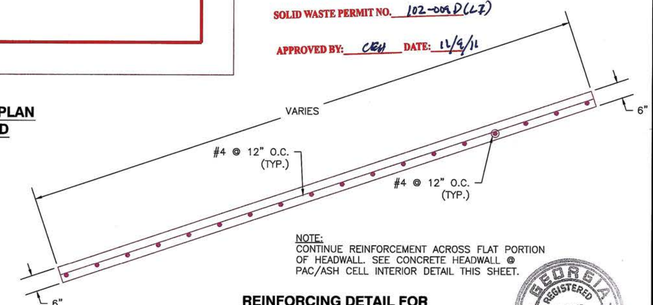
3 PIPE HEADWALL TYPICAL PLAN @ CELL INTERIOR
N.T.S.



GSE POLYLOCK EMBED CHANNEL INSTALLATION DETAIL
N.T.S.
H1C11047 & H1C11053

NOTE:
EMBED CHANNELS ARE TO BE WELDED TOGETHER LONGITUDINALLY TO ENSURE NO LEAKING WHERE THE LINER CONNECTS TO THE CONCRETE

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 102-009D(LF)
APPROVED BY: CEH DATE: 11/9/11



NOTE:
CONTINUE REINFORCEMENT ACROSS FLAT PORTION OF HEADWALL. SEE CONCRETE HEADWALL @ PAC/ASH CELL INTERIOR DETAIL THIS SHEET.

REINFORCING DETAIL FOR CONCRETE HEADWALL
N.T.S.

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY H. McWHORTER

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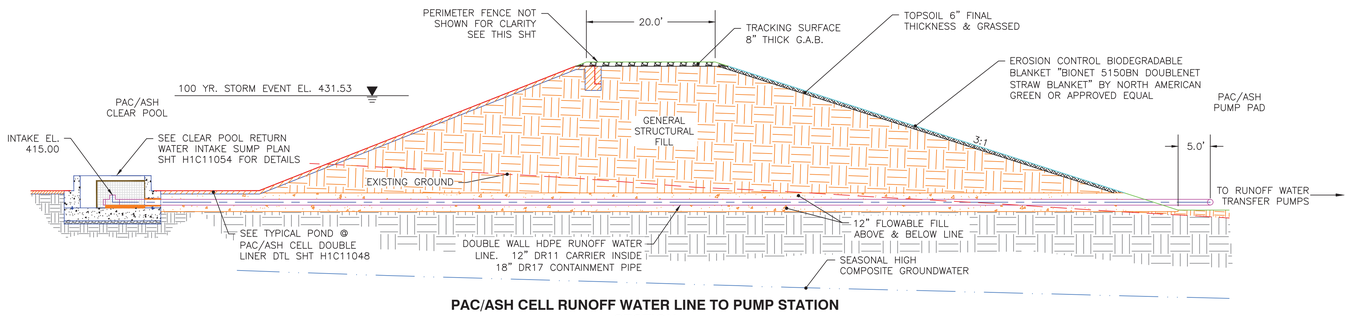
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS
SHEET 5

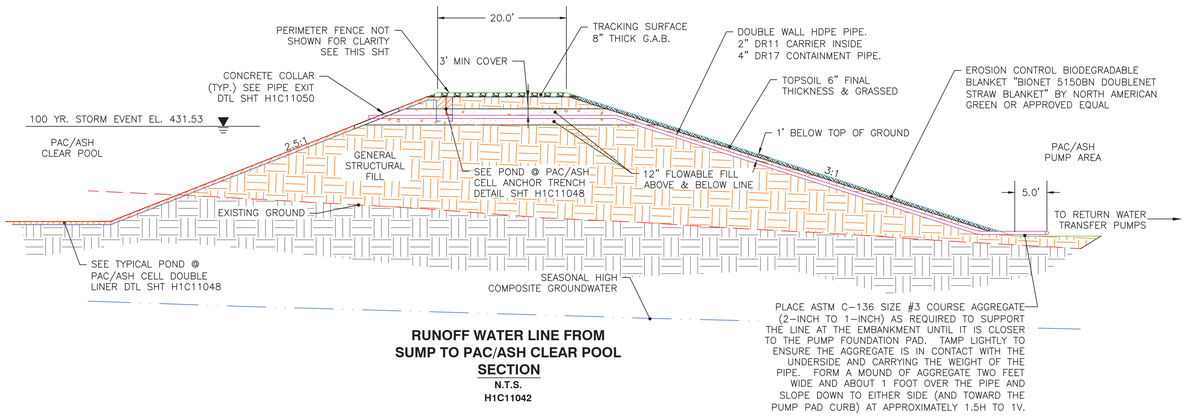
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 3	DATE 09-02-11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								
REVISION 2	DATE 12-03-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								
REVISION 1	DATE 02-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								
REVISION 0	DATE 11-25-09	ECO	PMG	JAH				JBS
ISSUED FOR PERMIT MODIFICATION								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860 EWO:3201DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	**H1C11050**	1	FINAL	3

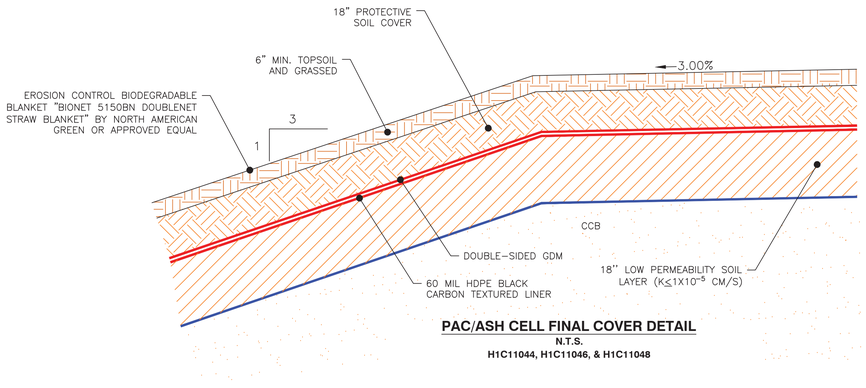
ANSI F: 40x28 Acad2004



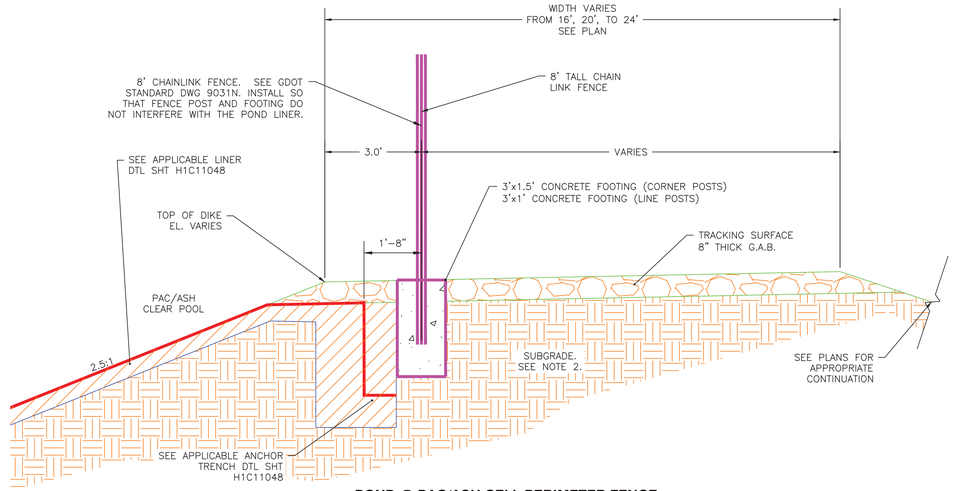
PAC/ASH CELL RUNOFF WATER LINE TO PUMP STATION SECTION
N.T.S.
H1C11042



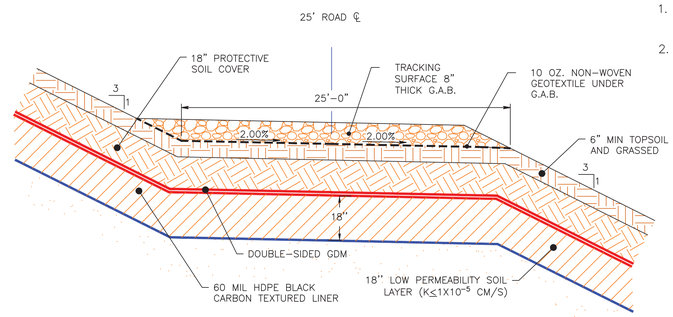
RUNOFF WATER LINE FROM SUMP TO PAC/ASH CLEAR POOL SECTION
N.T.S.
H1C11042



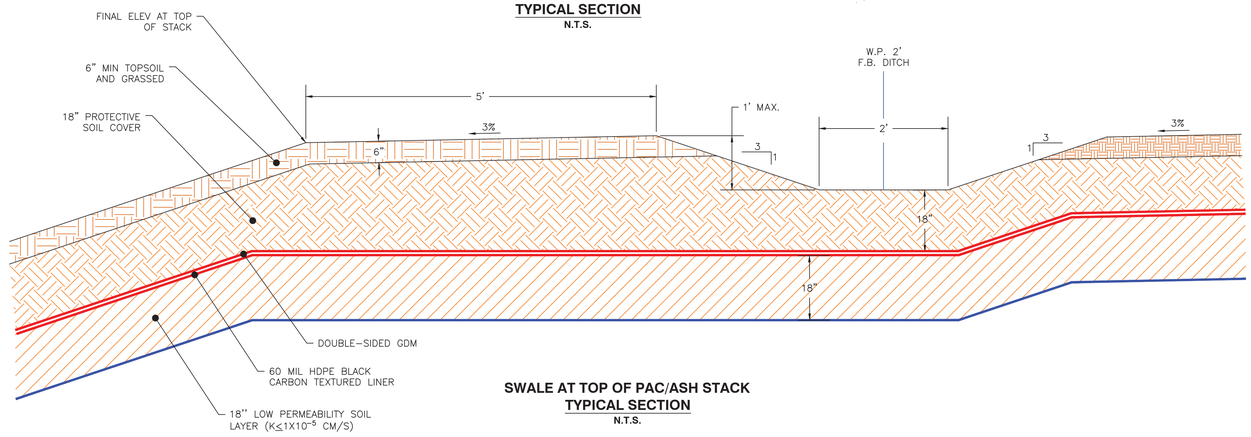
PAC/ASH CELL FINAL COVER DETAIL
N.T.S.
H1C11044, H1C11046, & H1C11048



POND @ PAC/ASH CELL PERIMETER FENCE TYPICAL SECTION
N.T.S.
H1C11042 & H1C11047



RAMP AT PAC/ASH STACK TYPICAL SECTION
N.T.S.



SWALE AT TOP OF PAC/ASH STACK TYPICAL SECTION
N.T.S.

NOTES:

1. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES
H1C11000 – TITLE SHEET & DRAWING INDEX
H1C11048 – PAC/ASH CELL MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11050 – PAC/ASH CELL MISCELLANEOUS SECTIONS AND DETAILS, SHEET 5
H1C11053 – PAC/ASH CELL RUNOFF WATER INTAKE PLAN & SECTIONS

GEORGIA REGISTERED No. 17985 PROFESSIONAL ENGINEER GLADIA M. MCHELLER 11-12-18

GEORGIA No. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 11/12/18

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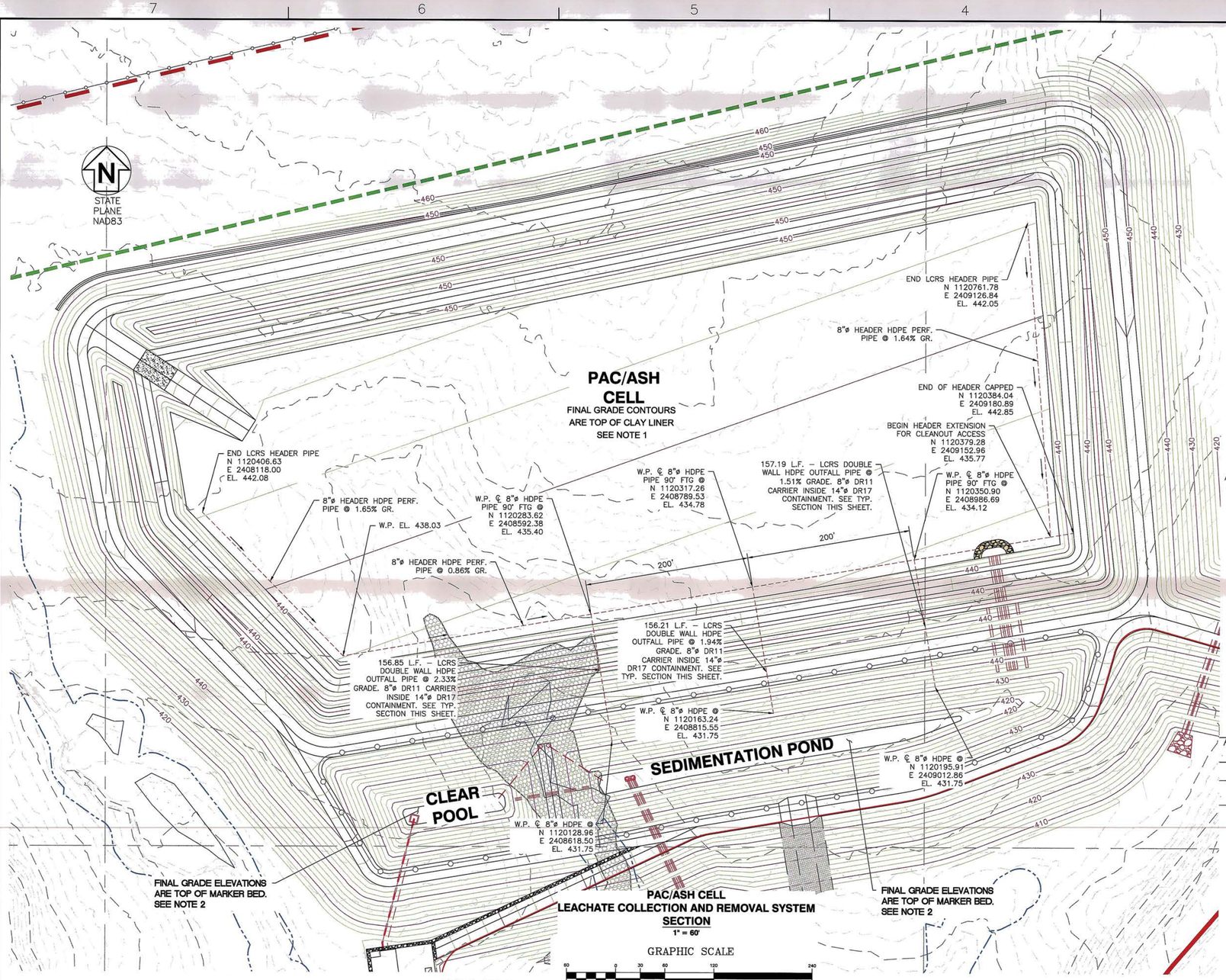
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 4	DATE 11-01-2018	AMC	CMM	RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								
REPLACED GCL WITH 18" OF LOW PERMEABILITY SOIL LAYER. ADDED TRACKING SURFACE TO RAMP AT PAC/ASH STACK TYPICAL SECTION.								
REVISION 3	DATE 09-02-11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO:3201DE							
REVISION 2	DATE 12-03-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION								
"REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO:3201DE							
REVISION 1	DATE 02-26-10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION								
"REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO:3201DE							
REVISION 0	DATE 11-25-09	ECO	PMG	JAH				JBS
ISSUED FOR PERMIT MODIFICATION								
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687."								
REA: SH-07860	EWO:3201DE							

Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS
SHEET 6

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11051	1	FINAL	4

ANSI F: 40x28 Acad2004



PAC/ASH CELL LEACHATE COLLECTION AND REMOVAL SYSTEM SECTION

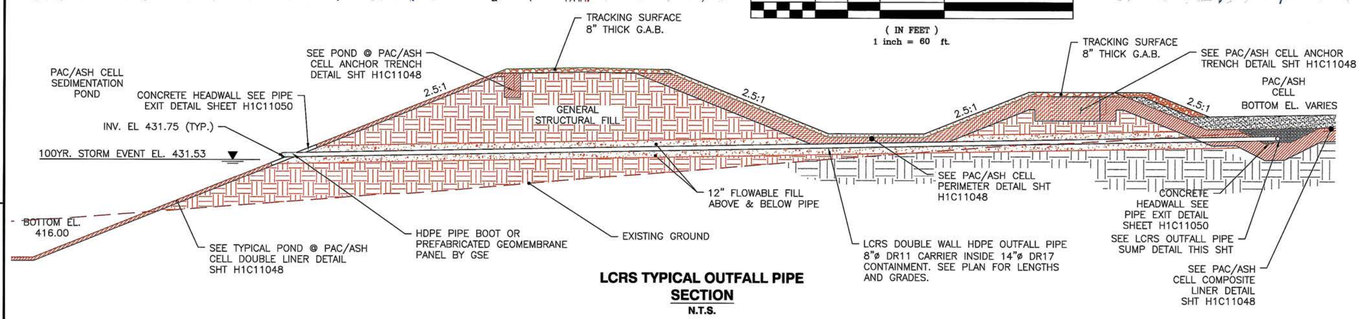
1" = 60'

GRAPHIC SCALE

60 0 30 60 120 240

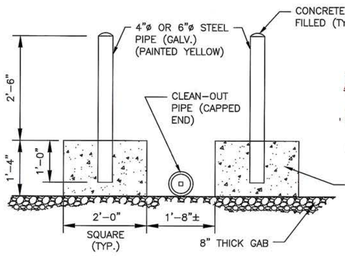
(IN FEET)

1 inch = 60 ft.



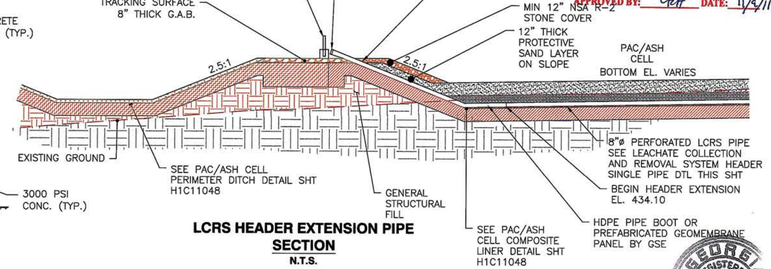
LCRS TYPICAL OUTFALL PIPE SECTION

N.T.S.



PIPE BOLLARDS AT LCRS CLEAN-OUT PIPES DETAIL

N.T.S.



LCRS HEADER EXTENSION PIPE SECTION

N.T.S.

NOTES:

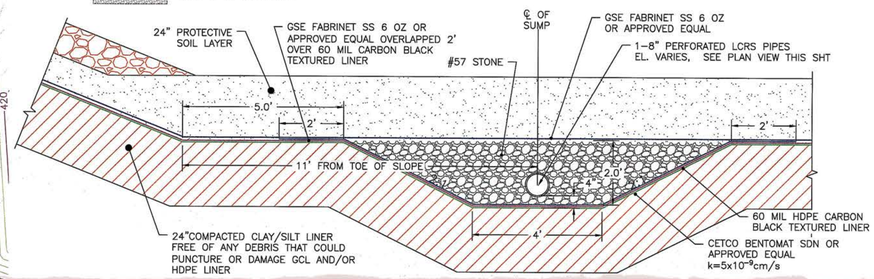
1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SIDE SLOPES OF THE PONDS ARE TOP OF CLAY LINER
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS
4. ALL LCRS COLLECTOR AND OUTFALL PIPES SHALL BE SMOOTH WALL HDPE AND MAXIMUM RATED SDR–13.5. COLLECTOR PIPES SHALL BE PERFORATED. OUTFALL PIPES PENETRATING THE LINER AND RUNNING THROUGH DIKE EMBANKMENT SHALL BE DOUBLE WALL HDPE PIPES 8" DIA DR11 CARRIER INSIDE 14" DIA DR17 CONTAINMENT HDPE PIPE.
5. PERFORATIONS SHALL BE AASHTO CLASS 1 PERFORATIONS – 3 ROWS OF PERFORATIONS REQ'D (A TOTAL OF 6 PER FT OF PIPE). EACH PERFORATION SHALL BE 0.4" DIA CIRCULAR AT 60 DEGREES OFF CENTERLINE OF BOTTOM OF PIPE.
6. FOR COMPOSITE LINER DETAIL FOR PAC ASH CELL, SEE SHEET H1C11048.
7. SEE BASE GRADING PLAN SHEET FOR GRADE ELEVATIONS AND STORM INLET STRUCTURE ELEVATIONS
8. ALL PIPE FITTINGS SHALL BE FIELD VERIFIED AND APPROVED BY THE PCM PRIOR TO INSTALLATION
9. ALL LINES SHOW ARE THE CENTERLINE OF THE COLLECTION SUMP

LEGEND:

- LCRS PIPES
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

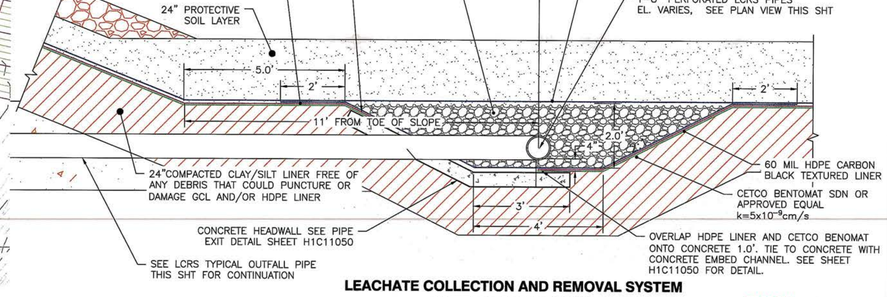
REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11048 PAC/ASH CELL, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11050 PAC/ASH CELL, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 5



LEACHATE COLLECTION AND REMOVAL SYSTEM COLLECTION SUMP

N.T.S.



LEACHATE COLLECTION AND REMOVAL SYSTEM OUTFALL SUMP DETAIL

N.T.S.

GEORGIA
Environmental Protection Division
Solid Waste Management Program

MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 102-009(D)(2)
APPROVED BY: CEH DATE: 11/3/11

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 4	DATE 09–02–11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 4 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE								
REVISION 3	DATE 02–18–11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE								
REVISION 2	DATE 12–03–10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07880 EWO: 3511DE								
REVISION 1	DATE 02–26–10	ECO	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07860 EWO:3201DE								
REVISION 0	DATE 11–25–09	ECO	PMG	JAH				JBS
ISSUED FOR PERMIT MODIFICATION "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07860 EWO:3201DE								

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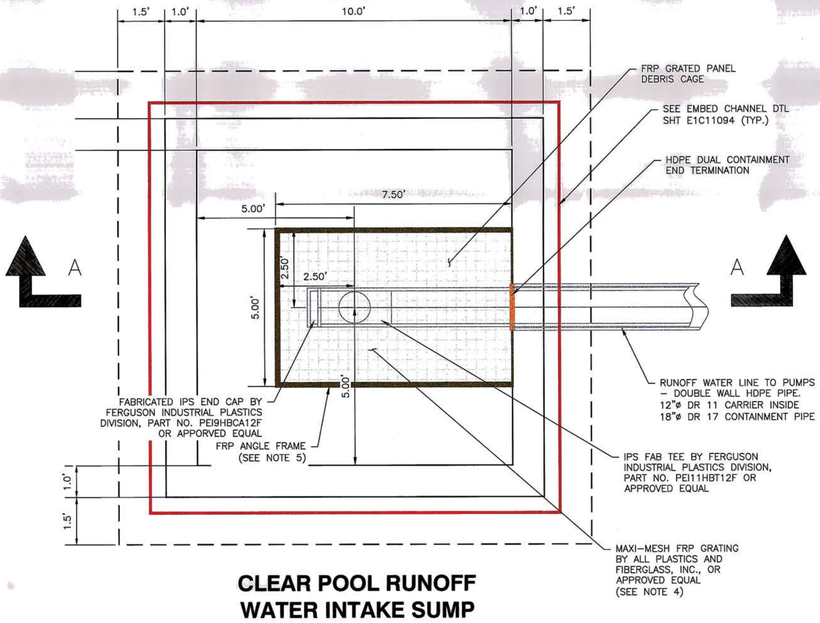
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CON'D	REV
AS NOTED	010505	H1C11052	1	FINAL	4

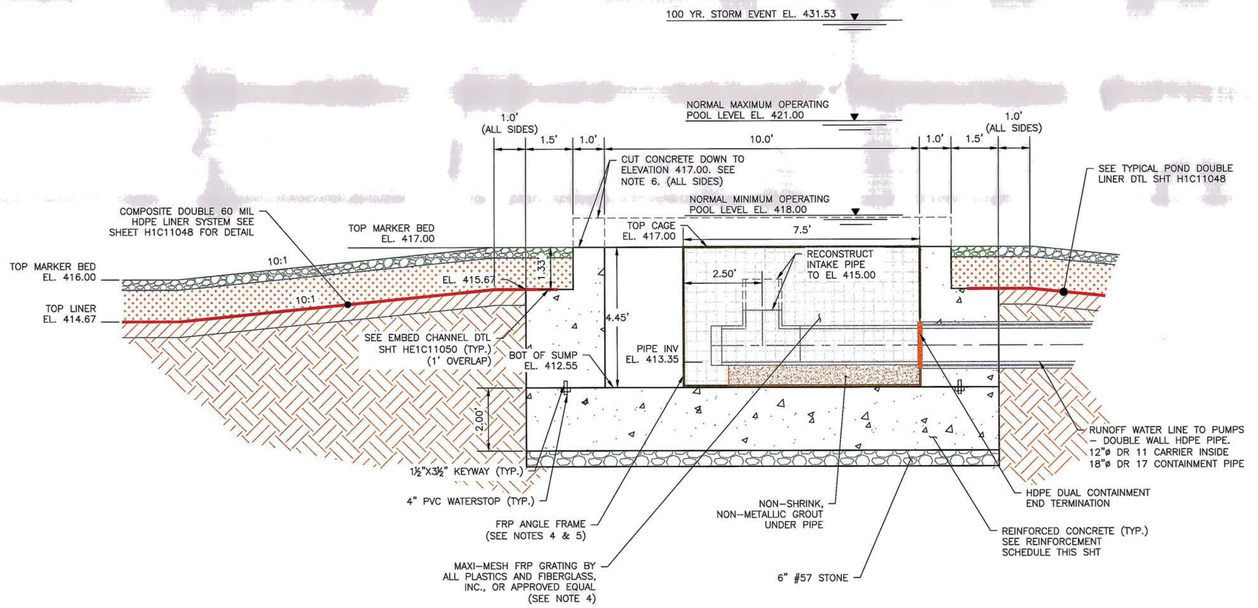
GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER Gary H. McWHORTER

ANSI F: 40x28 Acad2004



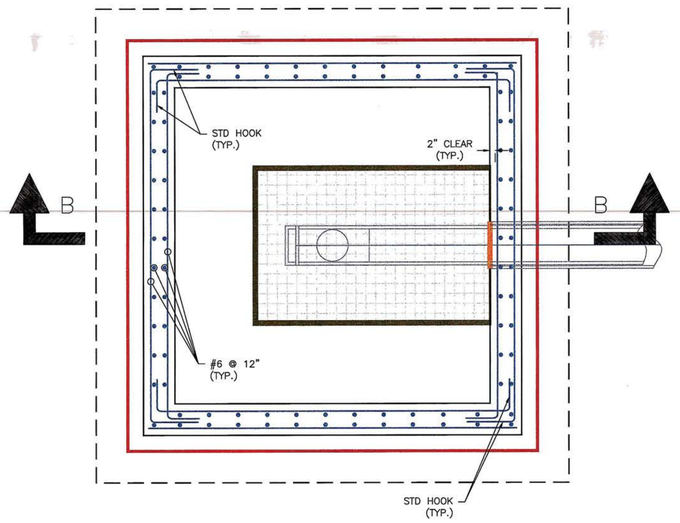
CLEAR POOL RUNOFF WATER INTAKE SUMP PLAN

1" = 2'



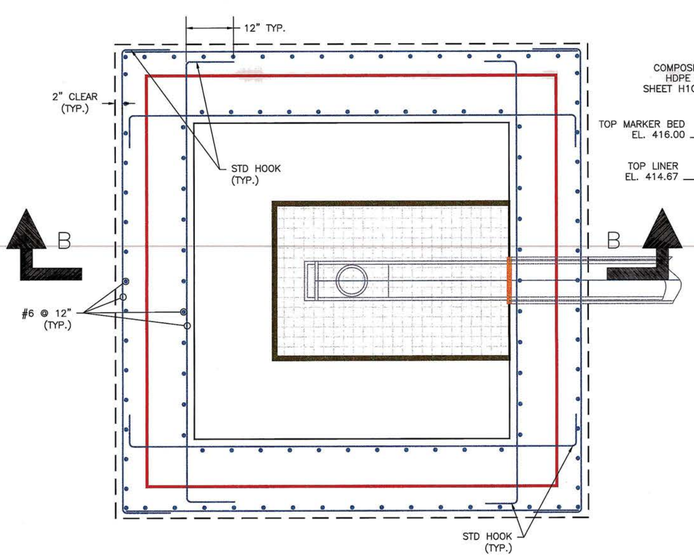
SECTION A-A

1" = 2'



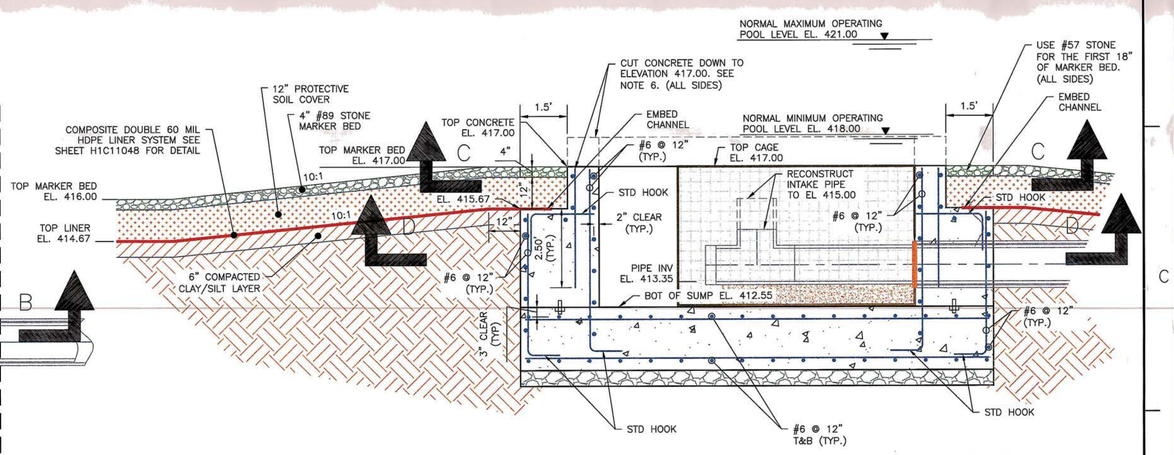
CLEAR POOL RUNOFF WATER INTAKE SUMP WALL REINFORCEMENT PLAN THROUGH SECTION C-C

1" = 2'



CLEAR POOL RUNOFF WATER INTAKE SUMP FOUNDATION REINFORCEMENT PLAN THROUGH SECTION D-D

1" = 2'



SECTION B-B

1" = 2'

NOTES:

1. CLEAR POOL OPERATING LEVELS
   - –MAX OPERATING LEVEL 421.00 (PUMPS ON)
   - –MIN OPERATING LEVEL 418.00 (PUMPS OFF)
2. ALL CONCRETE AND METAL USED IN RETURN WATER INTAKE SUMP SHALL BE COATED WITH CHEMPRUF 2410 LINING SYSTEM BY ATLAS MINERALS & CHEMICALS, INC. OR APPROVED EQUAL.
3. GRID DIMENSIONS FOR MAXI–MESH FRP GRATING ARE:
   - –1¼" THICK, 1"X1" SQUARE GRID CENTERLINE TO CENTERLINE
   - –BEARING BARS AND CROSS BARS ¼" THICK
   - –OPEN, CLEAR DIMENSION OF ONE GRID – ¾"x¾"
4. DEBRIS CAGE TO BE CONSTRUCTED WITH FRP GRATING PANELS AND 4"x4"x½" FRP VINYLESTER ANGLES (INSIDE & OUT) BY ALL PLASTICS AND FIBERGLASS, INC. MAXI–MESH PANELS TO BE ATTACHED TO FRAME BY STAINLESS STEEL BOLTS AND HARDWARE AT 18" O.C. GRATING PANELS TO BE JOINED PER MANUFACTURER'S SPECIFICATIONS.
5. DEBRIS CAGE TO BE FASTENED TO CONCRETE FLOOR AND SIDE WALLS BY STAINLESS STEEL BOLTS AND HARDWARE.
6. AFTER CUTTING TOP OF SUMP WALL DOWN TO EL 417.00, RECOAT ALL CUT CONCRETE AND EXPOSED REBAR WITH CHEMPRUF 2410 LINING SYSTEM BY ATLAS MINERALS AND CHEMICALS, INC OR APPROVED EQUAL. PREPARE SURFACE TREATMENT AS REQUIRED BY MANUFACTURER'S GUIDELINES AND INSTRUCTIONS PRIOR TO COATING.

GEORGIA
Environmental Protection Division
Solid Waste Management Program

MINOR MODIFICATION APPROVAL

SOLID WASTE PERMIT NO. 102-009D(MM)

APPROVED BY: CEB DATE: 11/9/11

REFERENCES
H1C11048 PAC/ASH, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11050 PAC/ASH, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 5

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Southern Company Services, Inc.

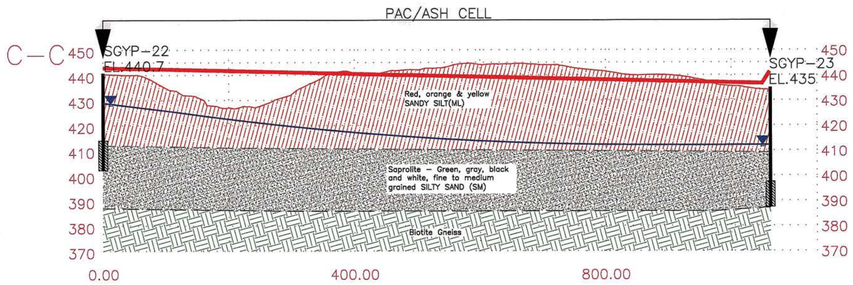
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
RUNOFF WATER INTAKE PLAN & SECTIONS

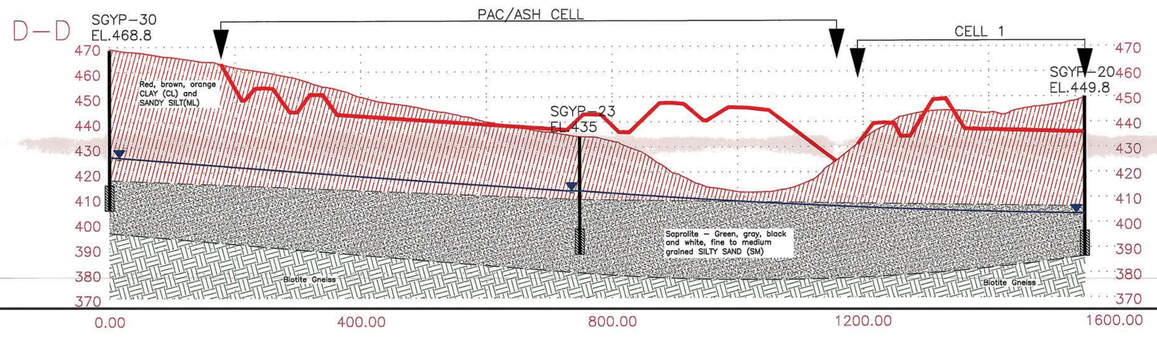
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
3	09–02–11	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 3 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07860 EWO: 3201DE								
2	12–03–10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR MINOR MODIFICATION "REV. 2 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07860 EWO: 3201DE								
1	02–26–10	EEJ	PMG	JAH				JBS
A. GENERAL REVISION FOR PERMIT MODIFICATION "REV. 1 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07860 EWO: 3201DE								
0	11–25–09	ECO	PMG	JAH				JBS
ISSUED FOR PERMIT MODIFICATION "REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12687." REA: SH–07860 EWO: 3201DE								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11053	1	FINAL	3

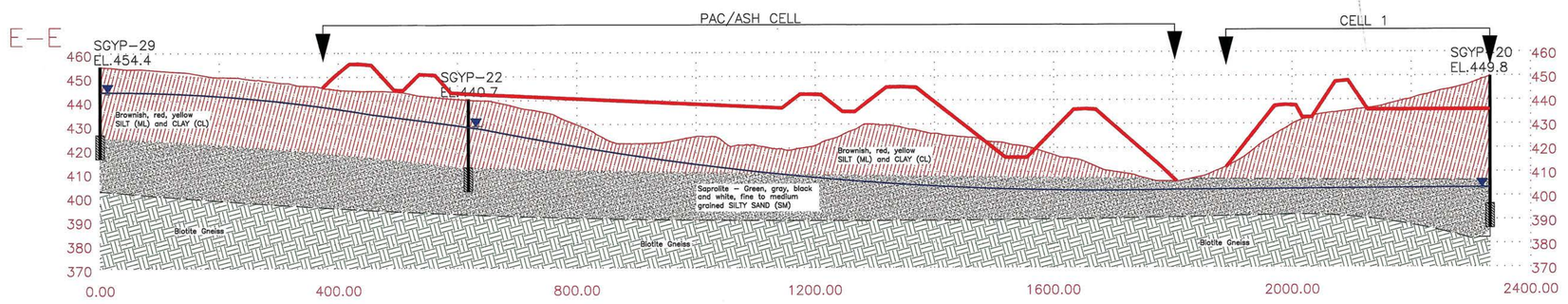
ANSI F: 40x28 Acad2004



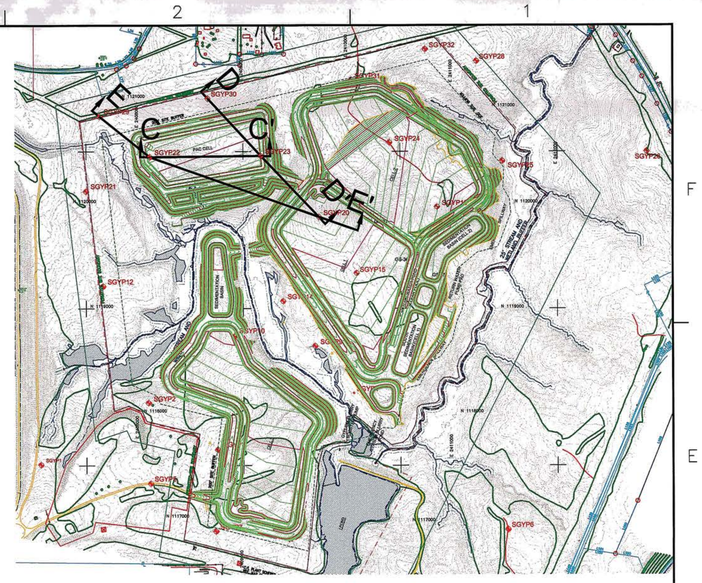
SECTION C–C'
SCALE:
1"=25' VERT
1"=100' HORZ



SECTION D–D'
SCALE:
1"=25' VERT
1"=100' HORZ



SECTION E–E'
SCALE:
1"=25' VERT
1"=100' HORZ



GRAPHIC SCALE
(IN FEET)
1 inch = 600 ft.

LEGEND:
HIGH WATER ELEVATIONS
BASE GRADE OF WASTE DISPOSAL CELLS

RHONDA J. TINSLEY
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 001671
12/3/10

Geological Protection Division
Waste Management Program
MINOR MODIFICATION APPROVAL
102-009D(LI)
4-14-2011
5/3/11

"I, Rhonda J. Tinsley, a professional geologist registered to practice in the State of Georgia (License Number 001671), certify that the design of the groundwater monitoring system was developed in compliance with the Rules of Solid Waste Management, Chapter 391-3-4-.14."

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Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL PAC/ASH CELL COMBUSTION BY-PRODUCT DISPOSAL FACILITY, GEOLOGIC SECTIONS C–C', D–D' AND E–E'

REVISION 0 | DATE 02/26/2010
ISSUED FOR PERMIT MODIFICATION
"REV. 0 OF THIS DRAWING, BEING PART OF THE DESIGN & OPERATIONS PLAN FOR THE PLANT SCHERER CCB DISPOSAL FACILITY, WAS SEALED BY RHONDA J. TINSLEY, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, NO. 001671."
REA: SH07860 EWO: 3201DE

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
JJB	RJT	JCR				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	H1C11054	1	FINAL	0

Drawing name: T:\ESEE MAJOR PROJECTS\PROJECTS\SCHERER\2009\ES1789 PAC D & O Revisions\dwg\H1C11054.dwg Dec 03, 2010 – 11:13am
ANSI F: 40x28 Acad2008

PLANT SCHERER - CELL 3

COAL COMBUSTION RESIDUALS (CCR) LANDFILL

PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

NOVEMBER 2018

OPERATOR

GEORGIA POWER COMPANY
10986 GEORGIA HIGHWAY 87
JULIETTE, GA 31046
(478) 994-0022

OWNER

GEORGIA POWER COMPANY
241 RALPH MCGILL BLVD.
ATLANTA, GA 30308
(404) 506-6526

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
-	TITLE SHEET
1	EXISTING TOPOGRAPHIC CONDITIONS
2	TOP OF SOIL LINER GRADING PLAN
3	LEACHATE COLLECTION / STORMWATER PUMPING PLAN
4	FINAL GRADING PLAN
5	FINAL DRAINAGE AND EROSION CONTROL PLAN
6	CROSS SECTIONS E & F
7 - 12	MISCELLANEOUS DETAILS

MONROE COUNTY, GEORGIA
PROJECT SITE LOCATION
1" = 1 MILE

LEGEND

EXISTING
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- JURISDICTIONAL STREAM
- PERMITTED SITE BOUNDARY
- BUFFER LINE
- EXISTING UNPAVED ROAD
- STREAM & WETLAND BUFFER
- WETLANDS
- SEASONAL HIGH GROUNDWATER CONTOUR
- 100 YEAR FLOODPLAIN

PROPOSED
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED EDGE OF CELL
- PROPOSED LIMITS OF WASTE
- PROPOSED STORM PIPE
- PROPOSED HEADWALL
- PROPOSED PERFORATED LEACHATE COLLECTION PIPE
- PROPOSED SOLID LEACHATE COLLECTION PIPE
- PROPOSED LEACHATE COLLECTION PIPE CLEANOUT
- PROPOSED G.A.B. ACCESS ROAD
- PROPOSED FORCE MAIN W/FLOW DIRECTION

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER 11/21/18 R. BRANT LANE

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers

GEORGIA REGISTERED NO. 17382 PROFESSIONAL ENGINEER 11-12-18 CLAUDIA M. MOELLER

3920 ARKWRIGHT ROAD, SUITE 101
MACON, GEORGIA 31210
PHONE: (478) 743-7175
FAX: (478) 743-1703

REVISION HISTORY

DATE	SHEET	REQUESTED BY:

BENCHMARKS			
BM NO.	NORTHING	EASTING	ELEV.
2429ECORVERT	1120954.780	2409679.540	449.908
2429GCLDAM	1119181.125	2406850.661	505.063
2429DGPS	1121395.730	2407630.407	454.322
2429FGPS	1121025.679	2413114.358	431.256
2429HGPS	1120155.358	2413549.744	434.150
2429JGPS	1115972.890	2410231.861	434.065
2429KGPS	1115763.745	2411823.723	455.586

NOTE: BENCHMARKS ARE LOCATED OUTSIDE THE LIMITS OF THE SHEET

PERMITTED SITE BOUNDARY

200' BUFFER LINE

100 YEAR FLOODPLAIN (TYP.)

EXISTING PAC/ASH CELL CLEAR POOL

EXISTING PAC/ASH CELL SEDIMENTATION POND

STREAM (TYP.)

25' WETLAND & STREAM BUFFER (TYP.)

WETLANDS (TYP.)

100 YEAR FLOODPLAIN (TYP.)

EXISTING CELL 1

EXISTING I-POND

NOTES:

1. TOPOGRAPHIC INFORMATION, PERMITTED SITE BOUNDARY & BUFFER LINE INFORMATION PROVIDED BY METRO ENGINEERING & SURVEYING CO., INC. LAST REVISED OCTOBER 15, 2007.
2. LOCATIONS OF STREAMS & WETLANDS WERE PROVIDED BY GEORGIA POWER ON AUGUST 17, 2017 IN A FILE NAMED "PLANT_SCHERER_CELL3.DXF"
3. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION.
4. DESIGN GRADES FOR THE PAC/ASH CELL AND CELL 1 AREAS WERE TAKEN FROM THE APPROVED PERMIT SHEET H1C11004 LAST REVISED MAY 8, 2015.
5. THE 100 YEAR FLOODPLAIN LIMIT AS SHOWN ON THIS SHEET WAS PROVIDED BY SCHNABEL ENGINEERING IN THE FEMA LETTER OF MAP REVISION REQUEST, DATED DECEMBER 21, 2017.

GEORGIA REGISTERED PROFESSIONAL No. 17983 GEOLOGIST CLAUDIA M. MOELLER 11-12-18

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 11/12/18

100 50 0 100 200

GRAPHIC SCALE IN FEET

Georgia Power

EXISTING TOPOGRAPHIC CONDITIONS

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
WWW.HHNT.COM
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-TP	EDIT 11-1-2018
SCALE	1" = 100'	SHEET 1 OF 12	
DATE	NOVEMBER 2018		

BENCHMARKS

BM NO.	NORTHING	EASTING	ELEV.
2429ECORVERT	1120954.780	2409679.540	449.908
2429GCLDAM	1119181.125	2406850.661	505.063
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2429KGPS	1115763.745	2411823.723	455.586

NOTE: BENCHMARKS ARE LOCATED OUTSIDE THE LIMITS OF THE SHEET

DRAINAGE STRUCTURES

PIPE NO.	SIZE	LENGTH	SLOPE	MATERIAL	INLET INV.	OUTLET INV.
101	36"	89'	0.80%	HDPE	430.71	430.00
102	4 - 36"	56'	0.71%	HDPE	413.50	413.10
103	4 - 36"	56'	0.71%	HDPE	413.50	413.10
200	36"	147'	8.84%	HDPE	405.00	392.00

HEADWALL NO.	INVERT
200	392.00

NON-LEACHATE STORMWATER POND DATA

DRAINAGE AREA TO BASIN (ACRES)	40.03
SEDIMENT STORAGE VOLUME REQUIRED (CU-FT)	72,414
SEDIMENT STORAGE VOLUME PROVIDED (CU-FT)	324,320
BOTTOM OF BASIN AT ELEVATION (FT)	± 400.00
PERMANENT POOL AT ELEVATION (FT)	405.00
TOP OF LEVEE (FT)	418.00
WATER LEVEL DURING 25 YEAR STORM (FT)	411.42
WATER LEVEL DURING 100 YEAR STORM (FT)	417.01

OVERFLOW STRUCTURE

SIZE (IN)	48" DIA
HEIGHT (FT)	8'
OVERFLOW STRUCTURE TOP ELEVATION(FT)	413.00
DEWATERING SKIMMER INLET	3 - 8" DIA. @ 405.00
CONCRETE BASE DIMENSIONS L x W x H (FT)	8 x 8 x 2

CARRIER PIPE (HDPE)

DIAMETER (IN)	36
LENGTH (FT)	147
SLOPE (%)	8.84
INLET INVERT ELEVATION (FT)	405.00
OUTLET INVERT ELEVATION (FT)	392.00
NO. & SIZE OF ANTI-SEEP COLLARS (FT)	2 - 9 x 9 x 2'

PERMITTED SITE BOUNDARY

SEASONAL HIGH GROUNDWATER CONTOURS (TYP)

PROPOSED SELF CONTAINED WHEEL WASH STATION

200' BUFFER LINE

25' WETLAND & STREAM BUFFER (TYP.)

WETLANDS (TYP.)

100 YEAR FLOODPLAIN (TYP.)

TOP OF 20' WIDE UNDERWATER SEDIMENT CONTROL BERM (3:1 SIDE SLOPES CENTERLINE EL. 404)

EXISTING PAC/ASH CELL CLEAR POOL

PROPOSED OVERFLOW STRUCTURE NO. 3

NON-LEACHATE STORMWATER POND

EL. 418.00

EL. 401.00

EL. 400.10

EL. 399.89

EL. 404.00

EL. 399.00

0.50%

PROPOSED CARRIER PIPE SEE NOTE NO. 10

EXISTING PAC/ASH CELL SEDIMENTATION POND (NOTE 12)

HEADWALL NO. 200.

EMERGENCY SPILLWAY

OUTLET CHANNEL SHALL BE FILLED AND LINER SYSTEM COMPLETED AS FILL PROGRESSES

JURISDICTIONAL WETLAND AND STREAM IMPACT (SEE NOTE 3)

145' LOW PROFILE ARCH CULVERT – CONTECH 111A30 OR EQUAL SEE DETAIL ON SHEET H1C11016 OF PERMITTED D&O PLAN.

STREAM (TYP.)

25' WETLAND & STREAM BUFFER (TYP.)

WETLANDS (TYP.)

100 YEAR FLOODPLAIN (TYP.)

PROPOSED CELL 3

EXISTING CELL 1

PROPOSED LIMITS OF WASTE

PROPOSED EDGE OF CELL

EXISTING POND

NOTES:

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4. CONTOURS WITHIN LINED AREAS REPRESENT TOP OF SOIL LINER.
5. CONTOURS INSIDE NON-LEACHATE STORMWATER POND REPRESENT TOP OF 4 INCH THICK GRAVEL MARKER BED.
6. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
7. DESIGN GRADES FOR THE PAC/ASH CELL AND CELL 1 AREAS WERE TAKEN FROM THE APPROVED PERMIT SHEET H1C11004 LAST REVISED ON MAY 8, 2015.
8. SEASONAL HIGH GROUNDWATER CONTOURS OBTAINED FROM D&O SHEET NO. H1C11028 APPROVED BY EPD ON MAY 3, 2011.
9. ALL LINER SLOPES INSIDE THE LIMITS OF WASTE SHALL BE NO STEEPER THAN 3H:1V.
10. THE PROPOSED CARRIER PIPE #200 WILL BE VALVED AND MAY BE OPEN OR CLOSED AT THE OPERATOR'S DISCRETION TO CONTROL WATER RE-USE.
11. THE 100 YEAR FLOODPLAIN LIMIT AS SHOWN ON THIS SHEET WAS PROVIDED BY SCHNABEL ENGINEERING IN THE FEMA CONDITIONAL LETTER OF MAP REVISION (CLOMR) REQUEST, DATED DECEMBER 21, 2017.
12. THE EXISTING PAC/ASH CELL SEDIMENTATION POND COLLECTS STORMWATER AND LEACHATE FROM THE PAC/ASH CELL.

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 17863 11-12-18 CLAUDIA M. MOELLER

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 11/12/18 R. BRANT LANE

100 50 0 100 200

GRAPHIC SCALE IN FEET

TOP OF SOIL LINER GRADING PLAN

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
WWW.HHNT.COM
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-IG	EDIT 11-1-2018
SCALE	1" = 100'	SHEET 2 OF 12	
DATE	NOVEMBER 2018		

Georgia Power

BENCHMARKS			
BM NO.	NORTHING	EASTING	ELEV.
2429ECORVERT	1120954.780	2409679.540	449.908
2429GCLDAM	1119181.125	2406850.661	505.063
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2429JGPS	1115972.890	2410231.861	434.065
2429KGPS	1115763.745	2411823.723	455.586

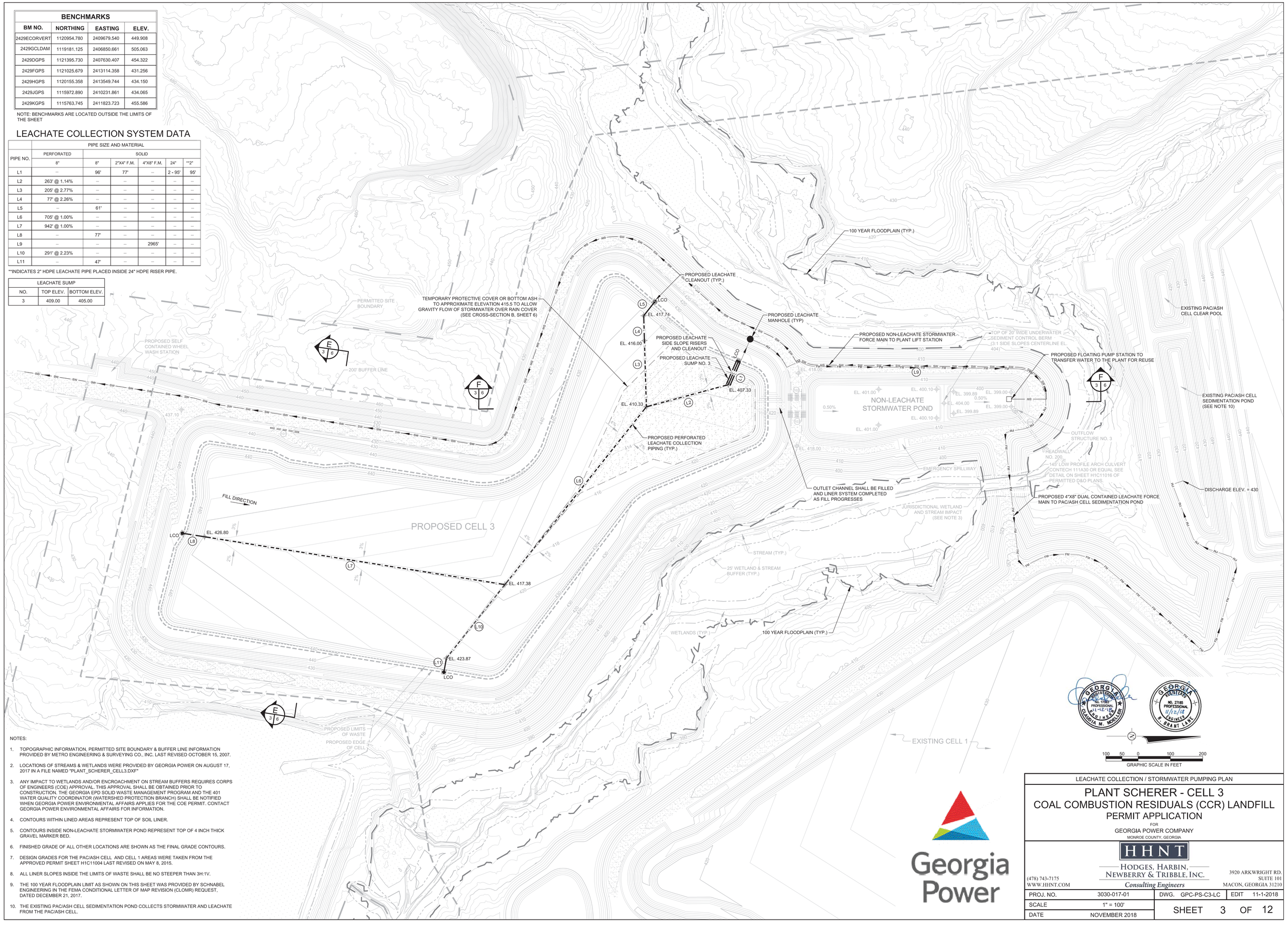
NOTE: BENCHMARKS ARE LOCATED OUTSIDE THE LIMITS OF THE SHEET

LEACHATE COLLECTION SYSTEM DATA

PIPE NO.	PIPE SIZE AND MATERIAL					
	PERFORATED	SOLID				
	8"	8"	2"X4" F.M.	4"X8" F.M.	24"	**2"
L1	–	96'	77'	–	2 - 95'	95'
L2	263' @ 1.14%	–	–	–	–	–
L3	205' @ 2.77%	–	–	–	–	–
L4	77' @ 2.26%	–	–	–	–	–
L5	–	61'	–	–	–	–
L6	705' @ 1.00%	–	–	–	–	–
L7	942' @ 1.00%	–	–	–	–	–
L8	–	77'	–	–	–	–
L9	–	–	–	2965'	–	–
L10	291' @ 2.23%	–	–	–	–	–
L11	–	47'	–	–	–	–

**INDICATES 2" HDPE LEACHATE PIPE PLACED INSIDE 24" HDPE RISER PIPE.

LEACHATE SUMP		
NO.	TOP ELEV.	BOTTOM ELEV.
3	409.00	405.00



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4. CONTOURS WITHIN LINED AREAS REPRESENT TOP OF SOIL LINER.
5. CONTOURS INSIDE NON-LEACHATE STORMWATER POND REPRESENT TOP OF 4 INCH THICK GRAVEL MARKER BED.
6. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
7. DESIGN GRADES FOR THE PAC/ASH CELL AND CELL 1 AREAS WERE TAKEN FROM THE APPROVED PERMIT SHEET H1C11004 LAST REVISED ON MAY 8, 2015.
8. ALL LINER SLOPES INSIDE THE LIMITS OF WASTE SHALL BE NO STEEPER THAN 3H:1V.
9. THE 100 YEAR FLOODPLAIN LIMIT AS SHOWN ON THIS SHEET WAS PROVIDED BY SCHNABEL ENGINEERING IN THE FEMA CONDITIONAL LETTER OF MAP REVISION (CLOMR) REQUEST, DATED DECEMBER 21, 2017.
10. THE EXISTING PAC/ASH CELL SEDIMENTATION POND COLLECTS STORMWATER AND LEACHATE FROM THE PAC/ASH CELL.

GRAPHIC SCALE IN FEET
100 50 0 100 200

Georgia Power

LEACHATE COLLECTION / STORMWATER PUMPING PLAN

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
WWW.HHNT.COM
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-LC	EDIT 11-1-2018
SCALE	1" = 100'	SHEET 3 OF 12	
DATE	NOVEMBER 2018		

BENCHMARKS			
BM NO.	NORTHING	EASTING	ELEV.
2429ECORVERT	1120954.780	2409679.540	449.908
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2429JGPS	1115972.890	2410231.861	434.065
2429KGPS	1115763.745	2411823.723	455.586

NOTE: BENCHMARKS ARE LOCATED OUTSIDE THE LIMITS OF THE SHEET

PROPOSED CELL 3

EL. 493

EL. 493

EL. 493

3.00%

10.00%

25'

20'

100 YEAR FLOODPLAIN (TYP.)

PERMITTED SITE BOUNDARY

200' BUFFER LINE

PROPOSED SELF CONTAINED WHEEL WASH STATION

NON-LEACHATE STORMWATER POND

EL. 418.00

EL. 401.00

EL. 400.10

EL. 399.89

EL. 404.00

0.50%

TOP OF 20' WIDE UNDERWATER SEDIMENT CONTROL DIKE (3:1 SIDESLOPES CENTERLINE EL. 404)

FLOATING PUMP STATION MAY BE REMOVED AT THE OPERATORS DISCRETION

EXISTING PAC/ASH CELL CLEAR POOL

EXISTING PAC/ASH CELL SEDIMENTATION POND

HEADWALL NO. 200

145' LOW PROFILE ARCH CULVERT CONTECH 111A30 OR EQUAL SEE DETAIL ON SHEET H1C11016 OF PERMITTED D&O PLANS.

EMERGENCY SPILLWAY

JURISDICTIONAL WETLAND AND STREAM IMPACT (SEE NOTE 3)

STREAM (TYP.)

25' WETLAND & STREAM BUFFER (TYP.)

WETLANDS (TYP.)

100 YEAR FLOODPLAIN (TYP.)

EXISTING I POND

PROPOSED LIMITS OF WASTE

PROPOSED EDGE OF CELL

EXISTING CELL 1

E 4 6

F 4 6

NOTES:

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4. CONTOURS INSIDE EDGE OF CELL REPRESENT TOP OF FINAL COVER.
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6. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
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GEORGIA REGISTERED PROFESSIONAL ENGINEER CLAUDIA M. MOELLER 11-12-18

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 11/12/18 W. BRANT LANE

100 50 0 100 200

GRAPHIC SCALE IN FEET

Georgia Power

FINAL GRADING PLAN

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

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PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-FG	EDIT 11-1-2018
SCALE	1" = 100'	SHEET 4 OF 12	
DATE	NOVEMBER 2018		

BENCHMARKS			
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2429ECORVERT	1120954.780	2409679.540	449.908
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NOTE: BENCHMARKS ARE LOCATED OUTSIDE THE LIMITS OF THE SHEET

EROSION CONTROL LEGEND

St	STORM DRAIN OUTLET PROTECTION	Lv	LEVEL SPREADER
Ch-2	TURF REINFORCEMENT MATTING	Cd-S	STONE CHECK DAM
Co	CONSTRUCTION EXIT	Ds1	DIST. AREA W/ MULCH
Ds2	DIST. AREA W/ TEMPORARY COVER	Ds3	DIST. AREA W/ PERMANENT COVER
XX	PROPOSED DOUBLE ROW SILT FENCE	Sd1-S	

RIP-RAP OUTLET PROTECTION

W2, L, St, W1

PIPE NO.	RIP-RAP SIZE	LENGTH(L)	W1	W2
101	6"	14'	9'	9'
102 (4)	9"	20'	36'	92'
103 (4)	9"	20'	36'	92'
200	9"	50'	9'	23'

NOTES:
ALL OUTLET PROTECTION RIP-RAP TO BE GROUTED. ALTERNATIVELY, OUTLET PROTECTION AREA TO BE LINED WITH CONCRETE.

OUTLET PROTECTION FOR CONCRETE DOWN CHUTES

OUTLET PROTECTION FOR CONCRETE DOWN CHUTES SHALL BE CONCRETE DITCH LINING AT THE OUTFALL OF EACH DOWN CHUTE. THE CONCRETE DITCH LINING DIMENSIONS WILL BE 40' X 27' (DITCH WIDTH) CENTERED ON THE DOWN CHUTE.

RIP-RAP LINED DITCH

DITCH NO.	RIP-RAP SIZE	LENGTH	SLOPE
1	NSA R-3	399.0'	0.28%
2	NSA R-3	505.8'	0.81%
3	NSA R-3	353.9'	0.79%
4	NSA R-3	607.9'	0.80%
5	NSA R-3	498.2'	0.76%
6	NSA R-3	264.4'	0.49%
7	NSA R-3	575.3'	0.48%
8	NSA R-3	665.9'	0.74%
9	NSA R-3	952.9'	0.76%
10	NSA R-3	304.4'	0.59%
11	NSA R-3	475.1'	0.49%

PROPOSED CONCRETE DOWN CHUTE (TYP.) (SEE SHEET 12 OF 12 FOR DETAILS)

100 YEAR FLOODPLAIN (TYP.)

PERMITTED SITE BOUNDARY

PROPOSED SELF CONTAINED WHEEL WASH STATION

200' BUFFER LINE

4' WIDE FLAT BOTTOM DITCH

RIP RAP TO BE PLACED AT THE BASE OF THE SLOPE AND GROUTED IN PLACE TO PROTECT GRAVEL MARKER BED

TOP OF 20 WIDE UNDERWATER SEDIMENT CONTROL BERM (3:1 SIDE SLOPES CENTERLINE EL. 404)

FLOATING PUMP STATION MAY BE REMOVED AT THE OPERATORS DISCRETION

EXISTING PAC/ASH CELL CLEAR POOL

EXISTING PAC/ASH CELL SEDIMENTATION POND

NON-LEACHATE STORMWATER POND

HEADWALL NO. 200

EMERGENCY SPILLWAY

JURISDICTIONAL WETLAND AND STREAM IMPACT (SEE NOTE 3)

145' LOW PROFILE ARCH CULVERT CONTECH 111A30 OR EQUAL SEE DETAIL ON SHEET H1C11016

STREAM (TYP.)

25' WETLAND & STREAM BUFFER (TYP.)

WETLANDS (TYP.)

100 YEAR FLOODPLAIN (TYP.)

PROPOSED CELL 3

EXISTING I POND

EXISTING CELL 1

PROPOSED LIMITS OF WASTE

PROPOSED EDGE OF CELL

BEGINNING/END OF DITCH (TYP)

CDC-1 CDC-2 CDC-3 CDC-4 CDC-5 CDC-6 CDC-7 CDC-8 CDC-9 CDC-10 CDC-11 CDC-12

DITCH 1 DITCH 2 DITCH 3 DITCH 4 DITCH 5 DITCH 6 DITCH 7 DITCH 8 DITCH 9 DITCH 10 DITCH 11

EL. 418.00 EL. 401.00 EL. 400.10 EL. 399.89 EL. 399.00 EL. 404.00 0.50%

GRAPHIC SCALE IN FEET 100 50 0 100 200

NOTES:

1. TOPOGRAPHIC INFORMATION, PERMITTED SITE BOUNDARY & BUFFER LINE INFORMATION PROVIDED BY METRO ENGINEERING & SURVEYING CO., INC. LAST REVISED OCTOBER 15, 2007.
2. LOCATIONS OF STREAMS & WETLANDS WERE PROVIDED BY GEORGIA POWER ON AUGUST 17, 2017 IN A FILE NAMED "PLANT_SCHERER_CELL3.DXF"
3. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
4. CONTOURS INSIDE EDGE OF CELL REPRESENT TOP OF FINAL COVER.
5. CONTOURS INSIDE NON-LEACHATE STORMWATER POND REPRESENT TOP OF 4 INCH THICK GRAVEL MARKER BED.
6. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
7. DESIGN GRADES FOR THE PAC/ASH CELL AND CELL 1 AREAS WERE TAKEN FROM THE APPROVED PERMIT SHEET H1C11004 LAST REVISED MAY 8, 2015.
8. ALL FINAL SLOPES SHALL BE NO STEEPER THAN 3H:1V.
9. ALL DOWNDRAINS SHALL BE 24" DIA CORRUGATED PLASTIC PIPE. (SMOOTH INTERIOR WALL)
10. THE PROPOSED 100 YEAR FLOODPLAIN LIMIT AS SHOWN ON THIS SHEET WAS PROVIDED BY SCHNABEL ENGINEERING IN THE FEMA CONDITIONAL LETTER OF MAP REVISION (CLOMR) REQUEST, DATED DECEMBER 21, 2017.

GEORGIA REGISTERED No. 17982 PROFESSIONAL 11-12-18 ENGINEER CLAUDIA M. MOELLER

GEORGIA REGISTERED NO. 27185 PROFESSIONAL 11/12/18 ENGINEER R. BRANT LANE

Georgia Power

FINAL DRAINAGE AND EROSION CONTROL PLAN

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

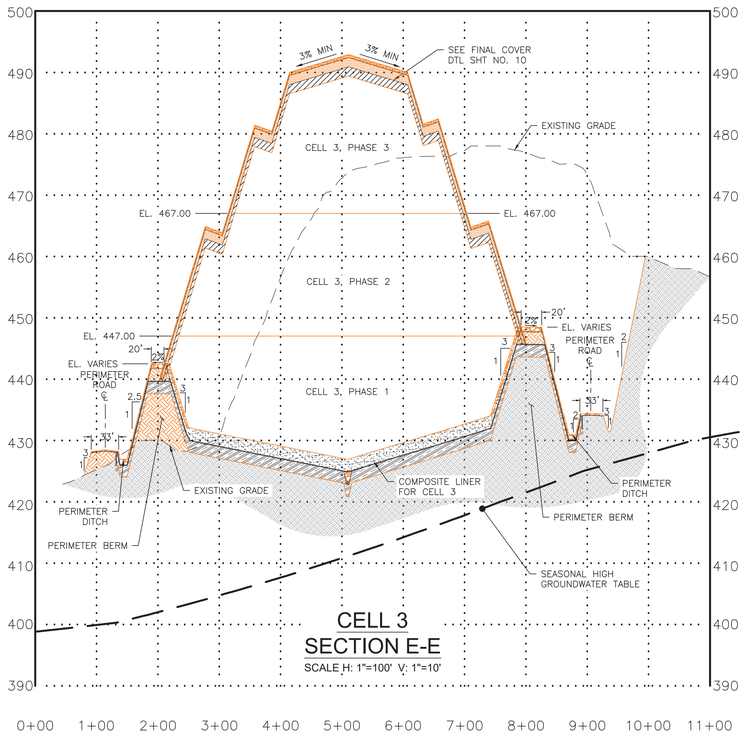
FOR

GEORGIA POWER COMPANY

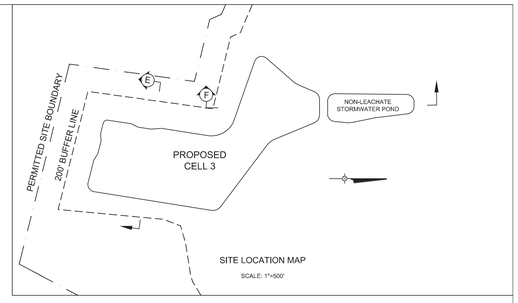
MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
WWW.HHNT.COM
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210

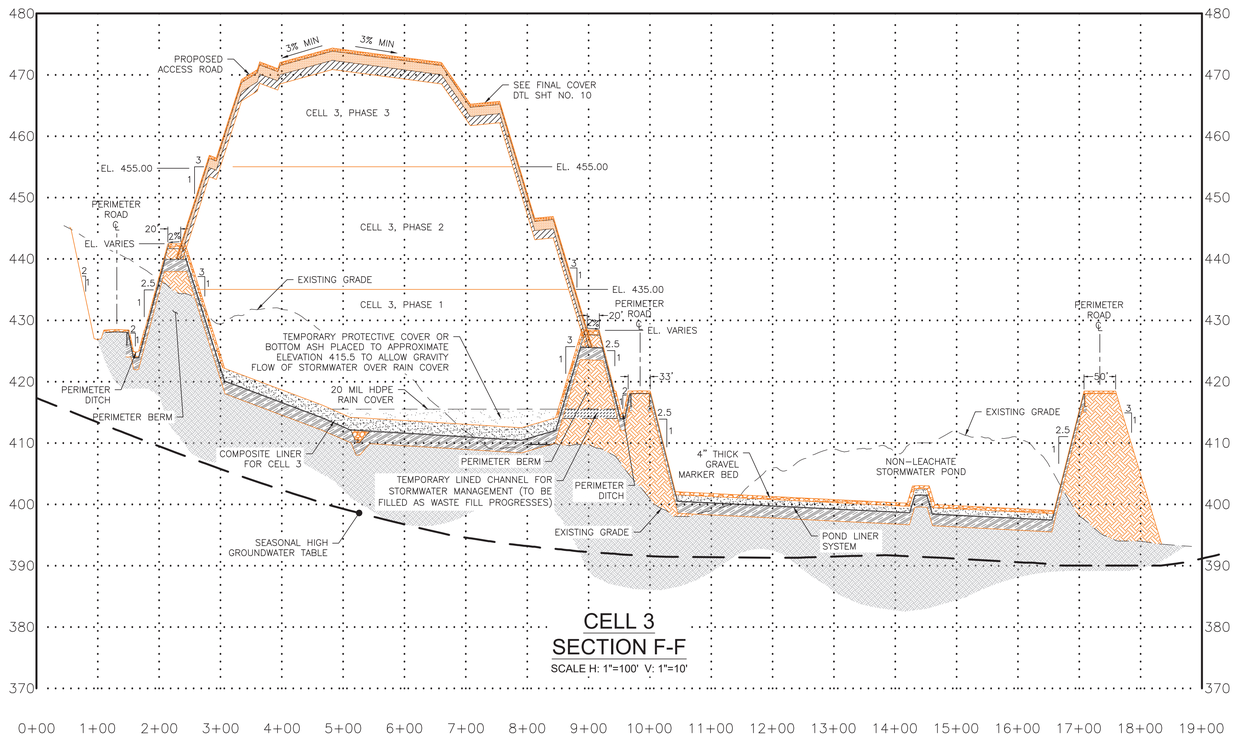
PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-FD	EDIT 11-1-2018
SCALE	1" = 100'	SHEET 5 OF 12	
DATE	NOVEMBER 2018		



CELL 3
SECTION E-E
SCALE H: 1"=100' V: 1"=10'



SITE LOCATION MAP
SCALE: 1"=500'



CELL 3
SECTION F-F
SCALE H: 1"=100' V: 1"=10'

NOTES:

1. TOPOGRAPHIC INFORMATION, PERMITTED SITE BOUNDARY & BUFFER LINE INFORMATION PROVIDED BY METRO ENGINEERING & SURVEYING CO., INC. LAST REVISED OCTOBER 15, 2007.
2. SEASONAL HIGH GROUNDWATER CONTOURS OBTAINED FROM D&O SHEET NO. H1C11028 APPROVED BY EPD ON MAY 3, 2011.

GEORGIA REGISTERED No. 17863 PROFESSIONAL ENGINEER 11-12-18 CLAUDIA M. MOELLER

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER 11/12/18 R. BRANT LANE

Georgia Power

CROSS SECTIONS E AND F

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION
FOR
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MONROE COUNTY, GEORGIA

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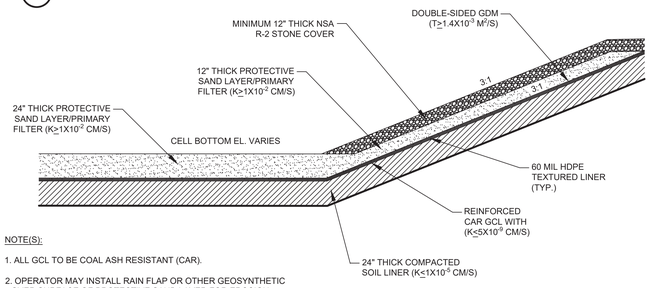
PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-XSEC	EDIT 11-1-2018
SCALE	AS SHOWN	SHEET 6 OF 12	
DATE	NOVEMBER 2018		

1



NOTE(S):

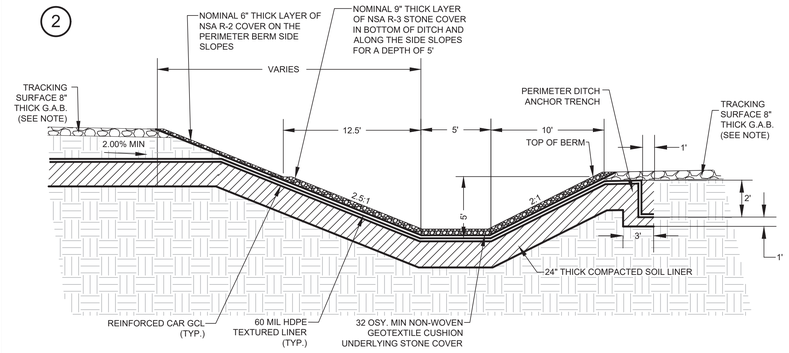
1. ALL GCL TO BE COAL ASH RESISTANT (CAR).

2. OPERATOR MAY INSTALL RAIN FLAP OR OTHER GEOSYNTHETIC OVER SURFACE OF PROTECTIVE SAND LAYER FOR EROSION CONTROL AND STORMWATER MANAGEMENT.

COMPOSITE BOTTOM LINER

NTS

2

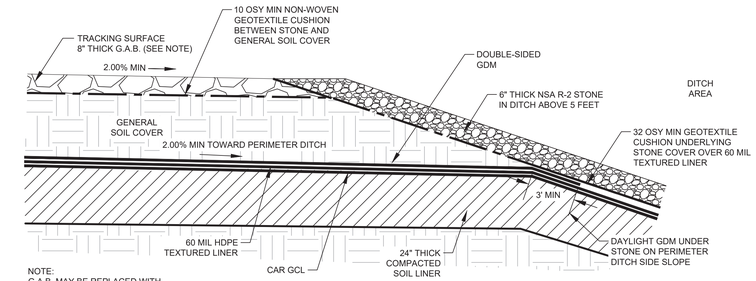


NOTE:
G.A.B. MAY BE REPLACED WITH ASPHALT PAVING

PERIMETER DITCH COMPOSITE LINER

SCALE: N.T.S.

3

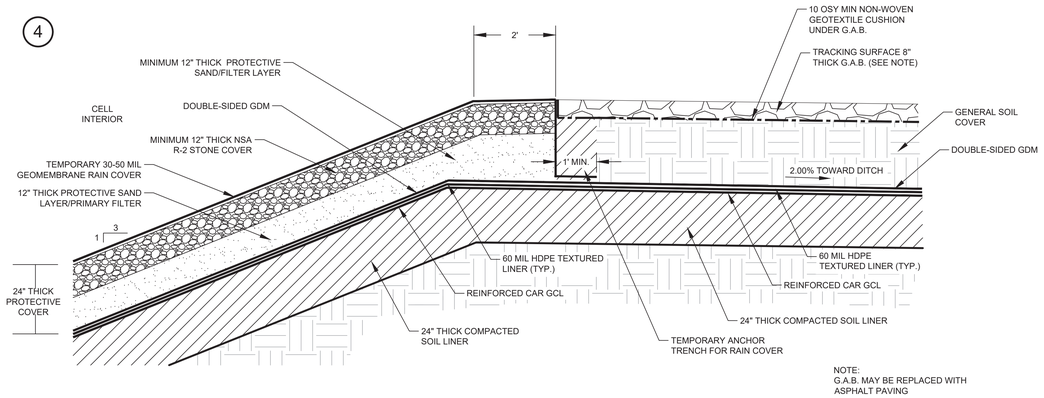


NOTE:
G.A.B. MAY BE REPLACED WITH ASPHALT PAVING

PERIMETER DITCH AND TOP OF BERM INTERFACE

SCALE: N.T.S.

4

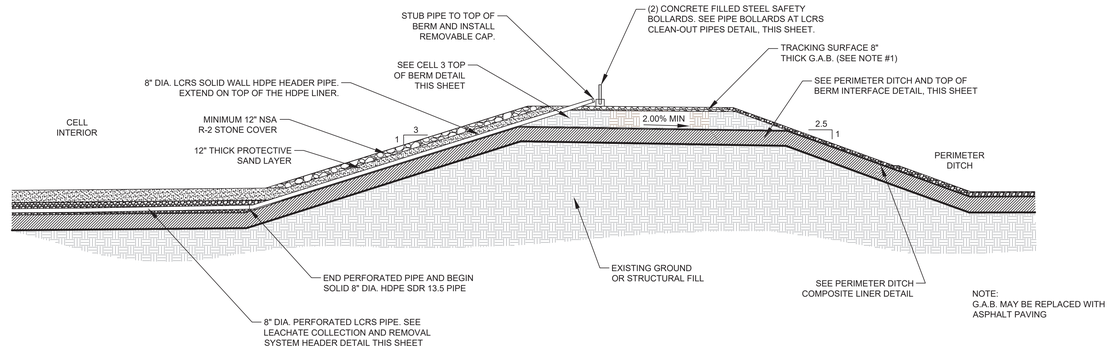


NOTE:
G.A.B. MAY BE REPLACED WITH ASPHALT PAVING

CELL 3 TOP OF BERM

SCALE: N.T.S.

5



NOTE:
G.A.B. MAY BE REPLACED WITH ASPHALT PAVING

NOTE(S):

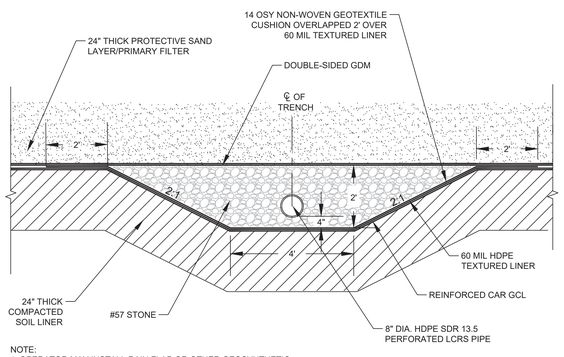
1. G.A.B. MAY BE REPLACED WITH ASPHALT PAVING.

2. OPERATOR MAY INSTALL RAIN FLAP OR OTHER GEOSYNTHETIC OVER SURFACE OF PROTECTIVE SAND LAYER FOR EROSION CONTROL AND STORMWATER MANAGEMENT.

LEACHATE COLLECTION REMOVAL SYSTEM (LCRS) PIPE CLEANOUT

SCALE: N.T.S.

6

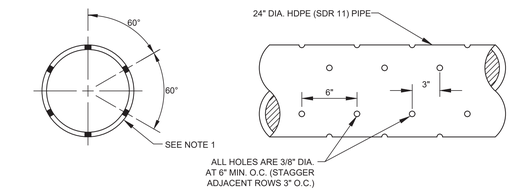


NOTE:
1. OPERATOR MAY INSTALL RAIN FLAP OR OTHER GEOSYNTHETIC OVER SURFACE OF PROTECTIVE SAND LAYER FOR EROSION CONTROL AND STORMWATER MANAGEMENT.

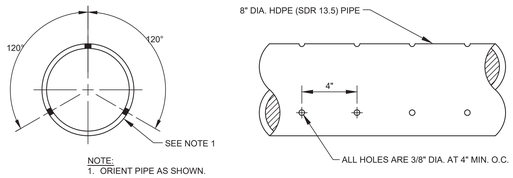
LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER

SCALE: N.T.S.

7



SIDE RISERS



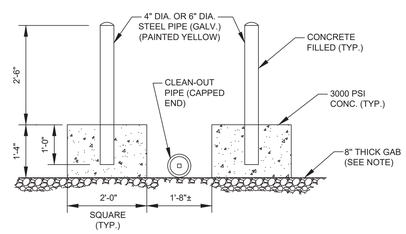
NOTE:
1. ORIENT PIPE AS SHOWN.

LEACHATE COLLECTION PIPING

HDPE LEACHATE PIPE PERFORATIONS

SCALE: N.T.S.

8



NOTE:
G.A.B. MAY BE REPLACED WITH ASPHALT PAVING

PIPE BOLLARDS AT LCRS CLEAN-OUT PIPES

SCALE: N.T.S.

GEORGIA REGISTERED No. 17363 PROFESSIONAL ENGINEER 11-12-18 CLAUDIA M. MUELLER

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER 11/12/18 R. BRANT LANE

Georgia Power

MISCELLANEOUS DETAILS

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

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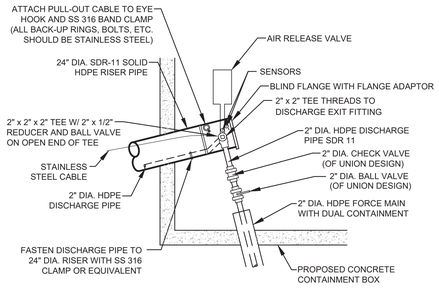
PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-D1	EDIT 11-1-2018
SCALE	N.T.S.	SHEET 7 OF 12	
DATE	NOVEMBER 2018		

9

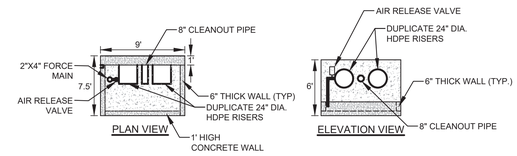


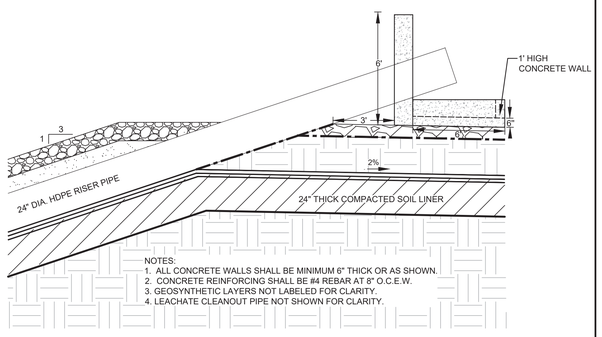
NOTE(S):
1. WRAP DISCHARGE PIPE AND FITTINGS WITH INSULATION AND HEAT TAPE.
2. THE ENDS OF ALL PIPES SHALL BE SEALED.

FORCE MAIN FITTINGS W/ FREEZE PROTECTION

SCALE: NTS

11



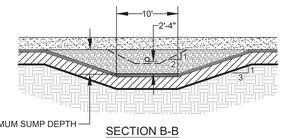


NOTES:
1. ALL CONCRETE WALLS SHALL BE MINIMUM 6" THICK OR AS SHOWN.
2. CONCRETE REINFORCING SHALL BE #4 REBAR AT 8" O.C.E.W.
3. GEOSYNTHETIC LAYERS NOT LABELED FOR CLARITY.
4. LEACHATE CLEANOUT PIPE NOT SHOWN FOR CLARITY.

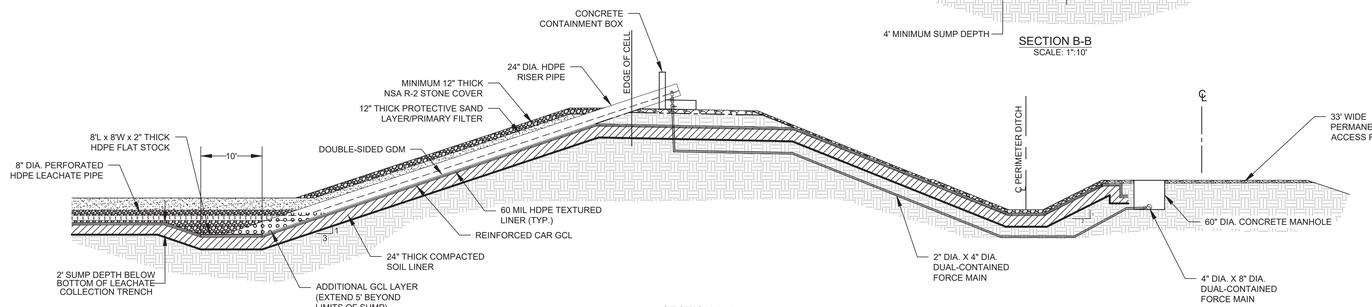
CONCRETE CONTAINMENT BOX

SCALE: NTS

10

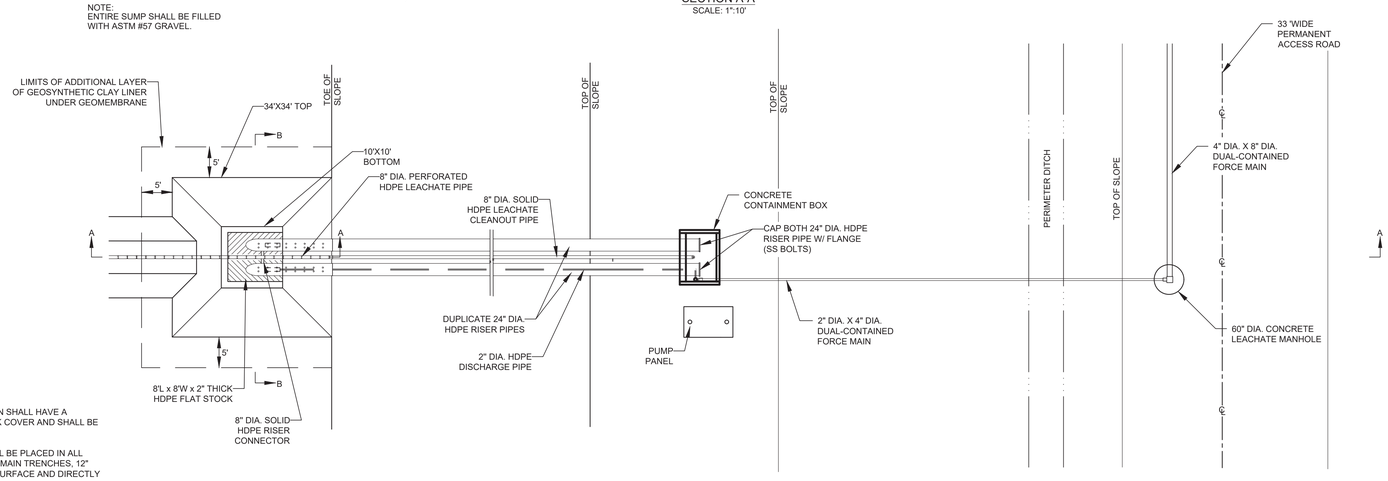


SECTION B-B
SCALE: 1":10'



NOTE:
ENTIRE SUMP SHALL BE FILLED WITH ASTM #57 GRAVEL.

SECTION A-A
SCALE: 1":10'



NOTES:
1. 2" DIA. FORCE MAIN SHALL HAVE A MINIMUM 24" THICK COVER AND SHALL BE DUAL-CONTAINED.
2. TRACE TAPE SHALL BE PLACED IN ALL LEACHATE FORCE MAIN TRENCHES, 12" BELOW GROUND SURFACE AND DIRECTLY ABOVE PIPE

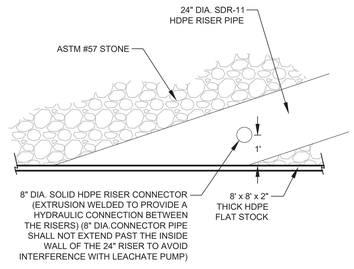
PUMP CONTROLS:
SUMP PUMP SYSTEM SHALL BE EQUIPPED WITH A HIGH WATER ALARM THAT WILL ALERT ONSITE PERSONNEL TO HIGH WATER LEVEL IN SUMP. AT A MINIMUM, 1 SPARE 60 GPM PUMP SHALL BE ONSITE FOR QUICK REPLACEMENT IN CASE OF PUMP FAILURE. PUMPS SHALL BE EQUIPPED WITH PRESSURE TRANSDUCERS FOR AUTOMATIC CONTROL.

PLAN VIEW
SCALE: NTS

NOTE:
1. ELECTRIC CONDUIT SHALL BE PLACED IN SAME TRENCH WITH FORCE MAIN.

LEACHATE SUMP ASSEMBLY

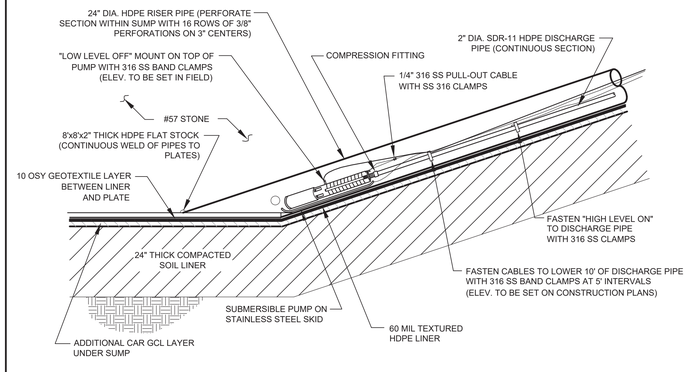
12



8" DIA. SOLID HDPE RISER CONNECTOR

SCALE: 1"=2'

13

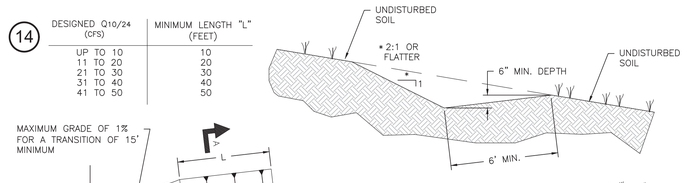


LEACHATE SUMP PUMP

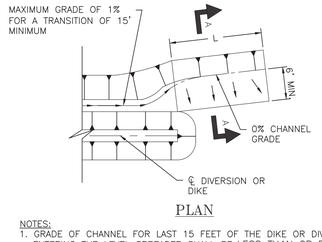
SCALE: N.T.S.

14

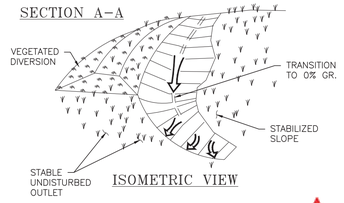
DESIGNED Q10/24 (CFS)	MINIMUM LENGTH "L" (FEET)
UP TO 10	10
11 TO 20	20
21 TO 30	30
31 TO 40	40
41 TO 50	50



SECTION A-A



PLAN



ISOMETRIC VIEW

NOTES:
1. GRADE OF CHANNEL FOR LAST 15 FEET OF THE DIKE OR DIVERSION ENTERING THE LEVEL SPREADER SHALL BE LESS THAN OR EQUAL TO 1%.
2. LEVEL SPREADERS MUST BE CONSTRUCTED ON UNDISTURBED SOIL.

TYPICAL LEVEL SPREADER (Lv)

SCALE: N.T.S.





MISCELLANEOUS DETAILS

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
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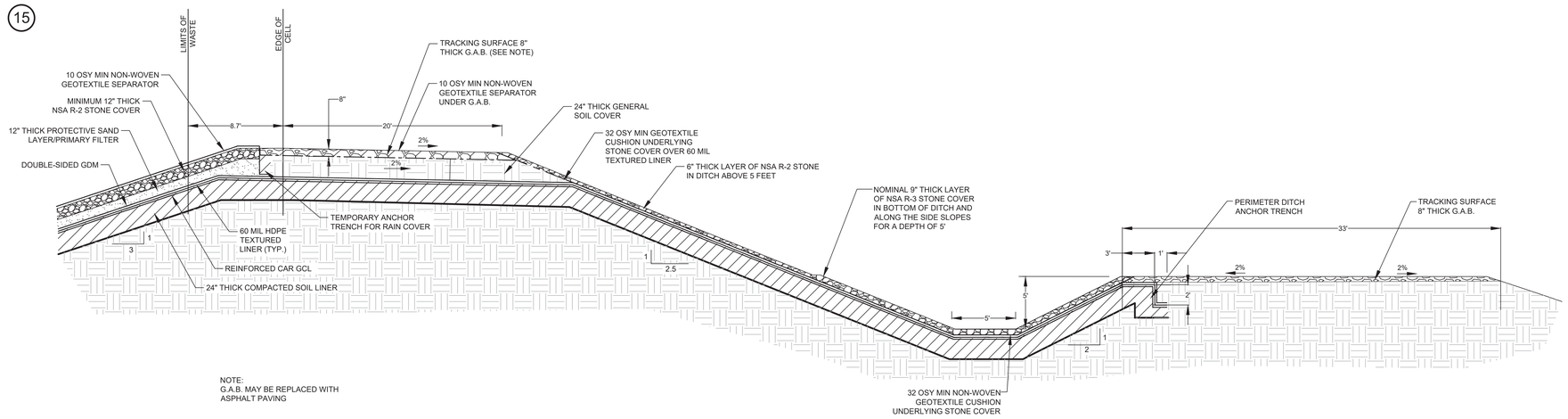
SCALE	N.T.S.	SHEET 8	OF 12
DATE	NOVEMBER 2018		

Georgia Power

15

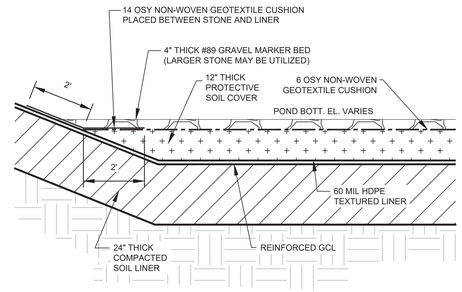


NOTE:
G.A.B. MAY BE REPLACED WITH ASPHALT PAVING

PERMANENT ACCESS ROAD, PERMIETER DITCH, AND BERM TYPICAL SECTION

SCALE: 1" = 5'

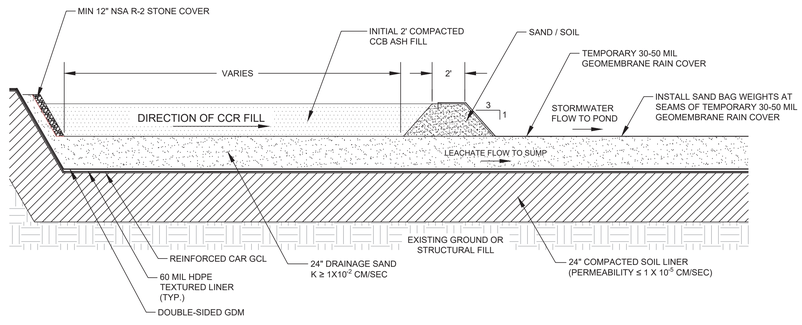
16



TYPICAL POND COMPOSITE LINER

SCALE: N.T.S.

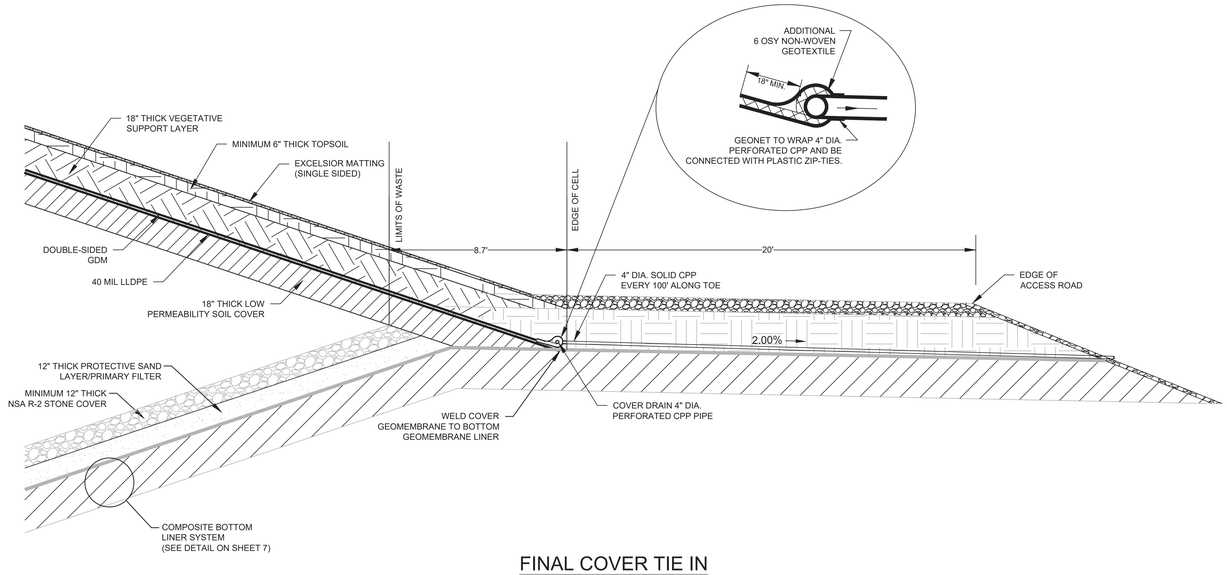
17



RAIN FLAP

SCALE: N.T.S.

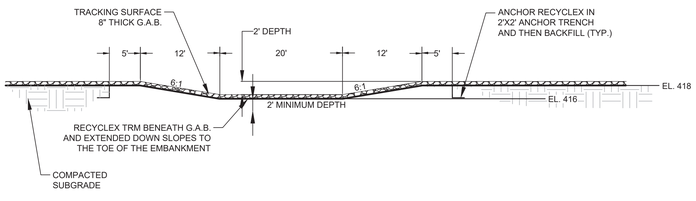
18



FINAL COVER TIE IN

SCALE: 1" = 3'

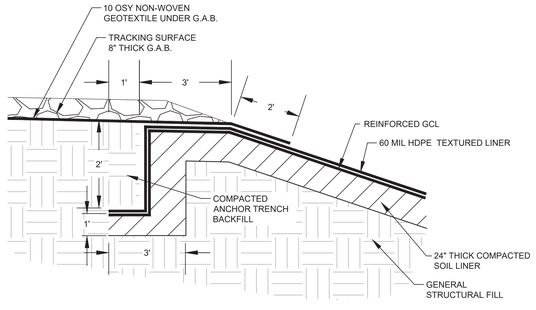
19



EMERGENCY SPILLWAY NON-LEACHATE STORMWATER POND TYPICAL SECTION

SCALE: N.T.S.

20



POND ANCHOR TRENCH

SCALE: N.T.S.

GEORGIA REGISTERED PROFESSIONAL NO. 17985 ENGINEER 11-12-18 CLAUDIA M. MCELLIGOTT

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER 11/12/18 R. BRANT LAKE

Georgia Power

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SCALE	N.T.S.	SHEET 9 OF 12	
DATE	NOVEMBER 2018		

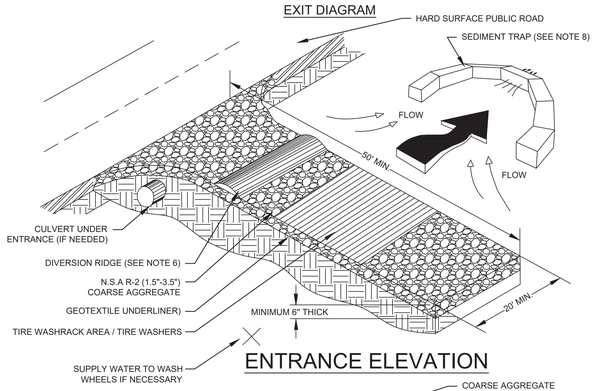
21

MAINTENANCE

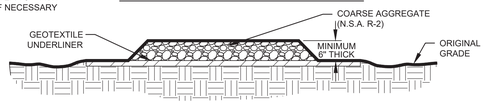
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



ENTRANCE ELEVATION

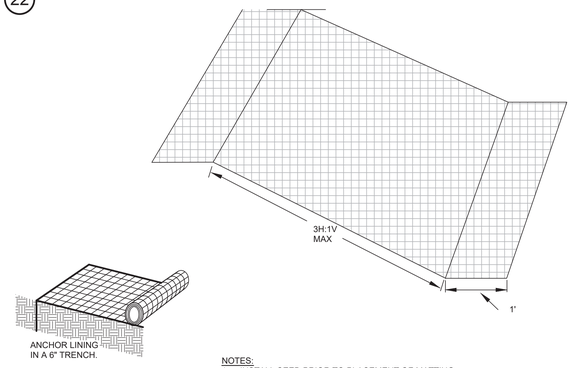


NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5") STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT POND (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.

CONSTRUCTION EXIT (Co)

SCALE: N.T.S

22

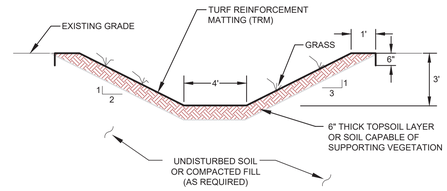


NOTES:
1. INSTALL SEED PRIOR TO PLACEMENT OF MATTING.
2. STAKE ALL MATS AS NEEDED TO PREVENT SHIFTING.
3. INSTALL ALL MATS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
4. FLEXIBLE GROWTH MEDIUM OR BONDED FIBER MATRIX MAY BE USED ON SLOPES IN PLACE OF EXCELSIOR MATTING.

EXCELSIOR (WOOD FIBER) MATTING Ss-RECP

SCALE: 1" = 1'

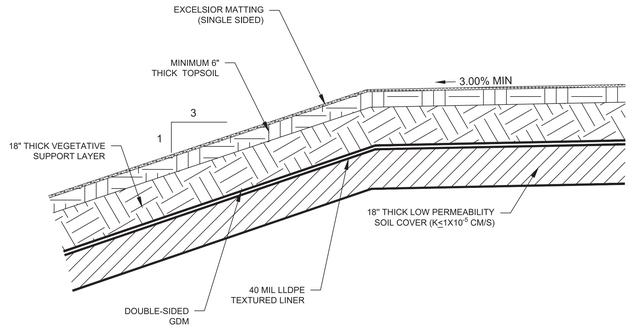
23



4' FLAT BOTTOM DITCH TYPICAL SECTION

SCALE: NTS

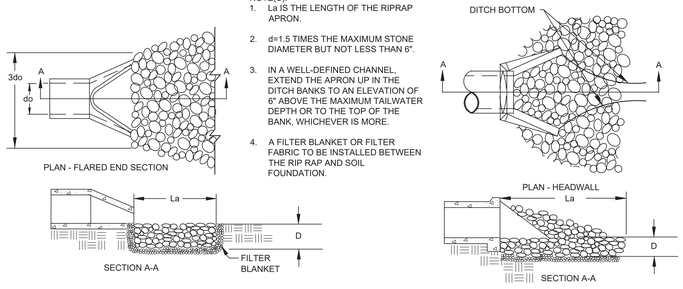
24



FINAL COVER SYSTEM

SCALE: N.T.S.

25

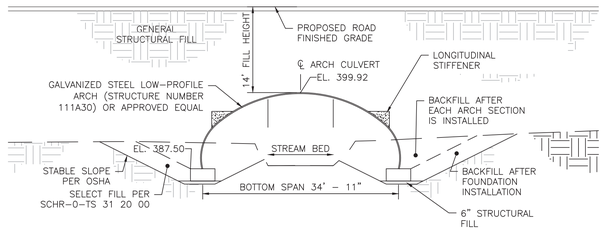


NOTE(S):
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. d=1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP IN THE DITCH BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS MORE.
4. A FILTER BLANKET OR FILTER FABRIC TO BE INSTALLED BETWEEN THE RIP RAP AND SOIL FOUNDATION.

OUTLET PROTECTION (St)

SCALE: N.T.S

26



NOTES:
1. FINAL DESIGN TO BE PROVIDED BY ARCH CULVERT MANUFACTURER,

ARCH CULVERT SECTION AT CELL 3

SCALE: 1" = 1'

GEORGIA REGISTERED No. 17982 PROFESSIONAL 11-12-18 ENGINEER CLAUDIA M. MUELLER

GEORGIA REGISTERED NO. 27185 PROFESSIONAL 11/12/18 ENGINEER R. BRANT LANE

Georgia Power

MISCELLANEOUS DETAILS

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
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SCALE	N.T.S.	SHEET 10 OF 12	
DATE	NOVEMBER 2018		

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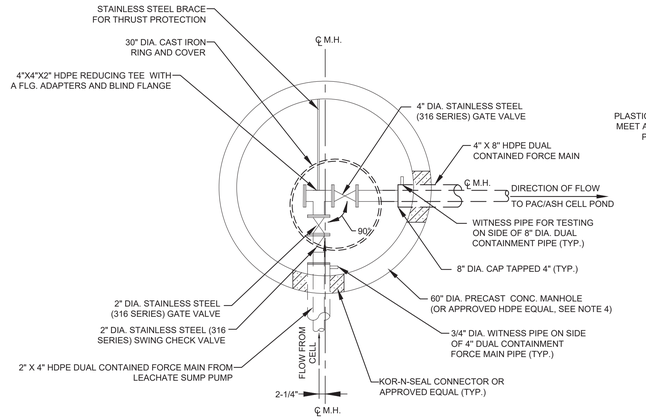
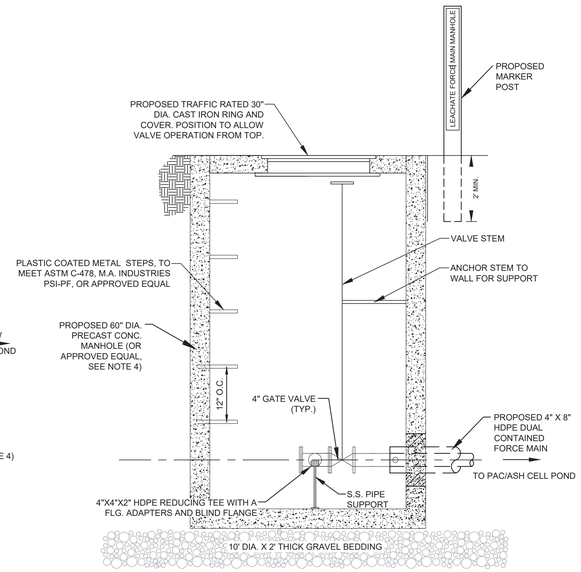


PLAN VIEW



ELEVATION VIEW

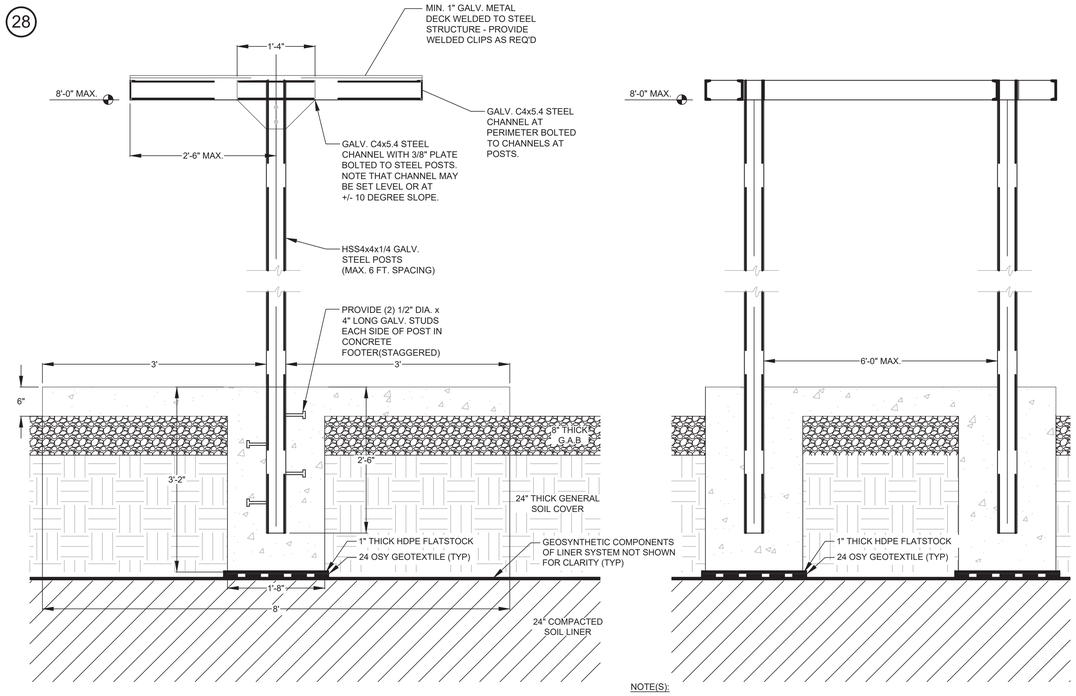
NOTE(S):

1. PROVIDE BOLLARDS ON EITHER SIDE OF MANHOLES TO PROTECT FROM VEHICLE TRAFFIC.
2. 4" VALVES SHALL BE FLANGED.
3. PIPE ENTRANCES INTO MANHOLE SHALL BE GROUTED OR CAST HDPE BOOTS (KOR-N-SEAL) INTO CONCRETE WALLS.
4. DIMENSION OF MANHOLE WILL BE DETERMINED BY CONTRACTOR BASED ON REQUIRED DIAMETER TO ACCOMMODATE VALVES AND FITTINGS.

LEACHATE MANHOLE AND STUB-OUT

SCALE: N.T.S.

28



NOTE(S):

1. PAINT ALL FIELD WELDED LOCATIONS WITH GALV. PAINT. CONTRACTOR MAY USE BOLTED CONNECTIONS WITH ENGINEER'S PRIOR APPROVAL.
2. PROVIDE 1/4" GALV. END CAPS AT ALL STEEL TUBE MEMBERS.
3. VERIFY ACTUAL WIDTH BASED ON CONTROL PANEL SCHEDULE.
4. STRUCTURE SHALL INCLUDE FLUORESCENT LIGHTING AND TWO ELECTRICAL RECEPTACLES

COVERED STRUCTURE FOR PUMP CONTROL PANEL

SCALE: N.T.S.

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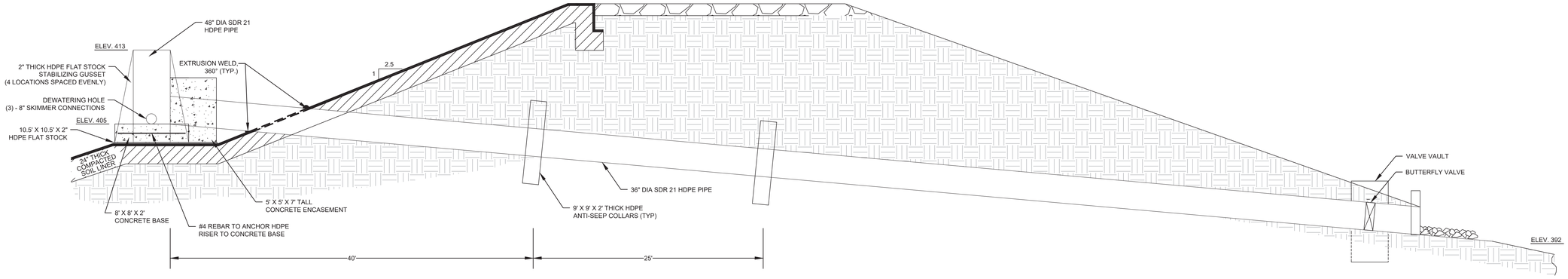

POND OVERFLOW STRUCTURE

SCALE: 1" = 5'

GEORGIA REGISTERED PROFESSIONAL 11-12-18 ENGINEER CLAUDIA M. MOELLER

GEORGIA REGISTERED NO. 27185 PROFESSIONAL 11/12/18 ENGINEER R. BRANT LINE

Georgia Power

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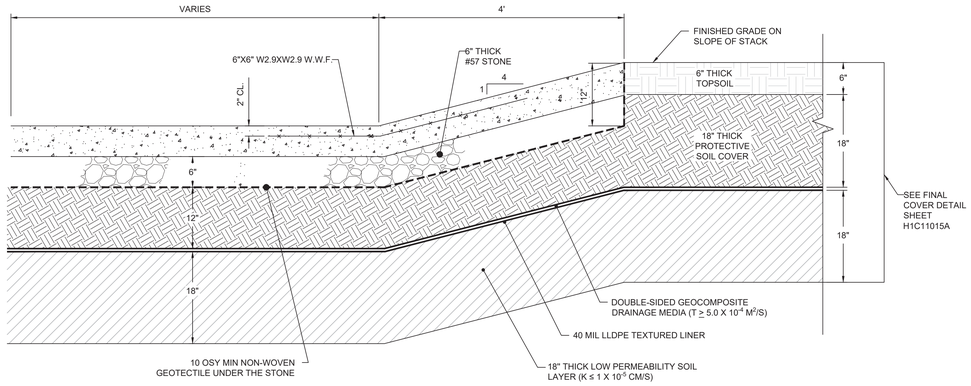


CONCRETE FLUME SECTION S-S
3:1 SIDE SLOPE AREA

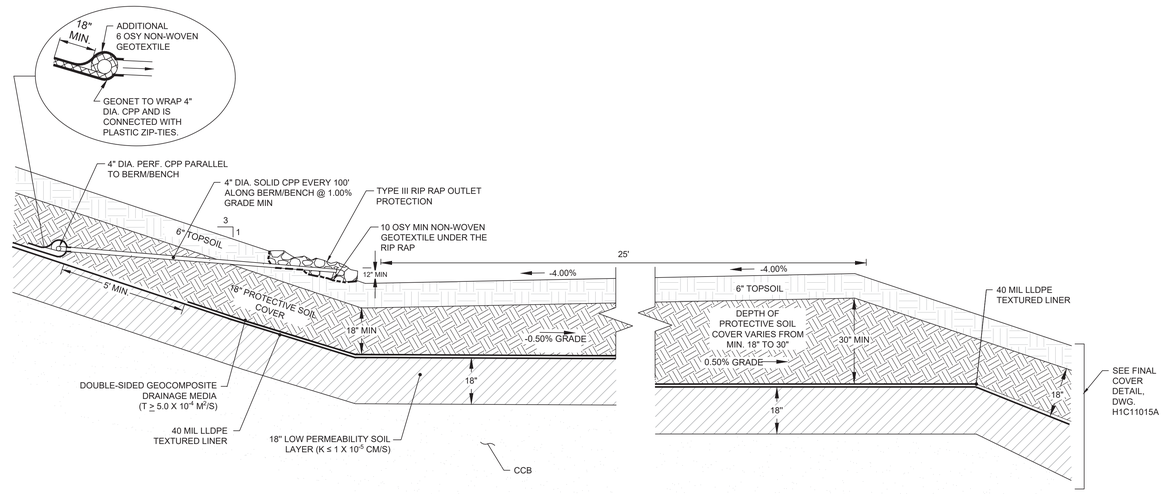
SCALE: N.T.S.

CONCRETE DOWN CHUTE (CDC) DIMENSIONS	
CDC NO.	**BOTTOM WIDTH (FT)**
1	6
2	1
3	1
4	3
5	6
6	6
7	1
8	1
9	3
10	3
11	3
12	3

CONCRETE FLUME SECTION U-U
AT CENTERLINE OF BERM

SCALE: N.T.S.

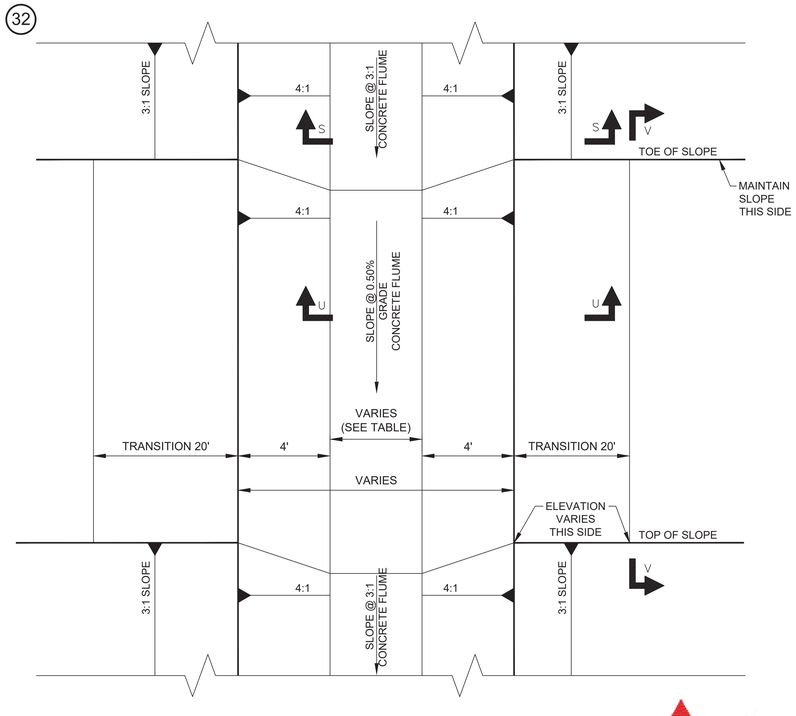
31



FINAL COVER INTERNAL DRAIN OUTLET
DETAIL BERM TRANSITION SECTION V-V

SCALE: N.T.S.

32



BERM TRANSITION AT FLUME DETAIL
PLAN VIEW

SCALE: N.T.S.

Georgia Power

GEORGIA REGISTERED No. 17385 PROFESSIONAL 11-12-18 ENGINEER GLADYS M. MOELLER

GEORGIA REGISTERED No. 27185 PROFESSIONAL 11/12/18 ENGINEER R. BRANT LANE

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